

Your specialist for translucent building elements

Technical manual Windows



S 80

S 85

S 86



General Terms and Conditions

Stand: 10/19

§ 1 General	7.7	In case of justified claims, the goods can only be returned to the Supplier on the Supplier's account, if after information of the defect the Supplier does not offer to pick up or to dispose of the goods. If higher expenses accrue because the customer had the goods transported after delivery to a location different than that of his business premises, the Supplier shall charge the increased expenses for supplementary performance to the Customer, unless the transport is in accordance with the intended use of the matter.
1.1		The present General Terms and Conditions exclusively apply to corporations, corporate bodies organized under public law or specialized agencies subject to public law in accordance with §310 section 1 BGB (German Civil Code).
1.2	7.8	Any Customer claims against the Supplier resulting from one of the manufacturer guarantees granted to him remain untouched.
1.3	7.9	Performances that are not part of the warranty shall be charged at the current hourly rates (at present € 100.00/ hour), as well as at € 0.55/kilometer plus legally valid Value Added Tax. This also applies to trips carried out in vain within the scope of supplementary performance measures, if the Customer is not present in spite of an appointment.
§ 2 Offer, Conclusion of Contract	§ 8 Liability, Limitation of Liability	
2.1	8.1	Notwithstanding any previous regulations and the subsequent limitations of liability, the Supplier shall be liable without limitation for any damages of life, body and health resulting from a negligent or intended violation of the Supplier's obligations, as well as for damages, subject to liability in accordance with the Product Liability Act, and for all damages resulting from intended or gross negligent violations of the contract or the Supplier's malice. If the Supplier has given a guarantee of quality and/or durability for the goods or any parts thereof, the Supplier shall also be liable within the scope of this guarantee. For any damages due to a lack of the guaranteed quality or durability which however are not detected directly at the goods themselves, the Supplier shall only be liable if the risk of such a damage is evidently subject to the quality or durability guarantee. The liability is limited to foreseeable damages typical for the contract. The limitations of liability shall also apply if the liability for legal representatives, executive employees and other vicarious agents of the supplier is concerned.
2.2	8.2	The Supplier shall also be liable for any damages resulting from simple negligence, if said negligence regards the violation of essential contract obligations. Essential contractual obligations are any obligations the fulfillment of which make the appropriate contract execution possible after all and the fulfillment of which can be regularly trusted by the contract partner. However, the Supplier shall only be liable if the damages are connected to the contract in a typical manner and if they are foreseeable. In case of simple negligent violation of obligations that are not essential, the Supplier shall not be liable. These limitations of liability shall also be valid, if the liability for legal representatives, executive employees and other vicarious agents of the Supplier is concerned.
§ 3 Prices	§ 9 Retention of Title	
3.1	9.1	The sold goods remain the Supplier's property until full payment of all the Supplier's claims resulting from the business relationship with the Customer. This also applies to any future deliveries, even if not always expressly mentioned by the Supplier.
3.2	9.2	The Customer is obliged to treat the bought goods with utmost care as long as the transfer of ownership has not yet taken place. As long as the ownership has not yet been transferred onto him, the Customer has to inform the Supplier immediately if the supplied object is seized or otherwise exposed to third party's actions.
	9.3	If the Supplier's (co-) ownership seizes to exist due to connection, it is agreed upon already now that the Customer's (co-) ownership of the jointly owned property is passed proportionally to the value of the invoice onto the Supplier. The Customer keeps the jointly owned property for free. To protect the Supplier's claims towards the Customer, the Customer even assigns such claims to the Supplier resulting from him from the connection of the retained goods with a real estate property of a third party; the Supplier accepts such assignment of a claim already now.
	9.4	The Customer shall be entitled to further sell goods subject to retention of title within normal business transactions. The claims against third parties resulting from selling the goods – in case of a current account agreed with them, it is the relevant balance claims – are assigned by the Customer already now in the total amount and/or the amount of a possible co-ownership share (see section 9.3) to the Supplier for safety purposes. The Customer is entitled to collect them until cancellation or discontinuation of the payments to the Supplier. The Customer is entitled to assign such claims – even for the purpose of collecting the outstanding payments within the scope of factoring – only in case of the Suppliers written consent.
	9.5	If the realizable value of all security interests the Supplier is entitled to exceeds the amount of all secured claims by more than 20%, the Supplier shall be obliged to release securities upon the Customer's request. The Supplier is entitled to select the security interests to be released.
	9.6	Due to the reservation of title, the Supplier is entitled to take back goods even if he did not cancel the contract. Taking back the goods while exercising the reservation of title is not considered as cancellation of the contract. The Customer grants the Supplier and/or any persons authorized by the latter access to the location of the goods.
	9.7	If the legislation the sold goods are subject to does not permit any reservation of title, but allows the Supplier to reserve similar rights at the object delivered, the Customer is obliged to make available to the Supplier a different, adequate security. The Customer is obliged to cooperate with regard to meeting any formal requirements that might be involved in this matter.
§ 4 Times of Delivery, Force Majeure	§ 10 Payment	
4.1	10.1	Unless otherwise agreed upon, the purchase price is due immediately at receipt of goods and invoice without any deduction. The date of payment is the day the money is available to the Supplier.
4.2	10.2	The Supplier accepts any orders under the explicit restriction that the extent of the order does not exceed the credit limit granted to the Buyer by the Supplier's credit insurer, taking into consideration any unsettled amounts of invoices in favor of the Supplier.
4.3	10.3	Drafts and checks are accepted as payment only and exclusively if explicitly agreed upon. The Buyer shall pay any extra costs accruing in this connection.
4.4	10.4	In spite of the Customer's different regulations on repayment, any payments made by the Customer are first deducted from the Customer's oldest debt. If costs and interests have already accrued, the payments received will first be deducted from the costs, then from the interests and finally from the key debts.
4.5	10.5	In case of a delay in payment by the Customer, the Supplier shall be entitled to invoice default interests in the amount of eight percentage points above the basic interest rate (§ 247 BGB (German Civil Code)). Subject to reserve to enforcement of a higher damage for delay, if the Supplier claims a higher damage for delay, the Customer has the right to prove that the damage for delay claimed did not accrue as such or at a lesser amount.
4.6	10.6	In case of a delay of a Customer's payment to the Supplier or any company associated with it and of well-founded doubts with regard to the Customer's ability to pay and/or creditworthiness, the Supplier shall be entitled to demand securities or down-payments for outstanding deliveries and to immediately make payable any claims from the business relationship.
§ 5 Transport	10.7	The Customer shall be entitled to count up and exert any rights of reserve if his counterclaim is based on the same contractual relationship. As far as counterclaims from other contractual relationships are concerned, the Customer shall be entitled to count up only if his counterclaims are undisputed and established as final and absolute.
§ 6 Passing of Risk	§ 11 Miscellaneous Provisions	
	11.1	The legislation of the Federal Republic of Germany shall be valid exclusively. The United Nations Convention on Contracts for the International Sale of Goods as of 11.04.1980 shall be excluded.
§ 7 Warranty and Liability	11.2	Place of fulfillment is the relevant point of departure of the goods; for payment, it is Muelheim an der Ruhr.
7.1	11.3	If the Customer is a merchant, a corporate party organized under public law or a specialized agency subject to public law or if he does not have a general place of jurisdiction in Germany, the place of jurisdiction is Muelheim an der Ruhr. However, the Supplier shall be entitled to file suit at the Customer's general place of jurisdiction.
7.2	11.4	The Supplier reserves the right to amend these General Terms and Conditions at any time. The amended General Terms and Conditions are then considered as being agreed upon between the two Parties, if the Customer does not object to these amended General Terms and Conditions within six weeks after their receipt. However, this shall apply only if the Supplier was informed about the consequences of a failure to protest.
7.3	11.5	If any provision of the present General Terms and Conditions or any provision within the scope of other agreements should be or become ineffective or impracticable, the effectiveness of any other provisions or agreements shall not be touched by this. Any inefficient or impracticable provision or agreement shall be replaced by an effective and/or practicable provision or agreement corresponding as closely as possible to the first economic purpose of this Agreement.
7.4		
7.5		
7.6		

Rodeca GmbH (Version: 03.2014)

General information

Windows

Stand: 10/19

Storage/Transport

Window systems are to be protected against sun and moisture before installation and must be stored on a flat surface. Please consider that especially mill finish aluminium with oxidative staining is not accepted as reclamation reason. Take care that packaged windows do not sweat in packaging, otherwise spot discoloration of the mill finished or anodised aluminum may occur.

Mounting instruction for aluminium

Metals such as e.g. Lead, copper or copper-containing alloys (such as brass) must not be installed together with aluminum. Galvanized steel parts, components made of stainless steel or zinc can be easily processed with aluminum. Aluminum components must not be exposed to scratching or impact stress. Their installation should be done only after completion of the masonry, stucco and plaster as well as stone work and plate work to avoid exposure to e.g. to avoid limescale and cement splashes on the surface. Impurities due to alkaline substances must be removed immediately. The attachment of aluminum profiles (such as metal window sills) must always be made with stainless steel V2A screws. Since aluminum has a different expansion behavior, no firm integration in plaster or building should be made. The attachment between aluminum and structure should be designed to be basically sliding.

Mounting instruction for electric motors

Electronic components are only to be installed by qualified personnel and are not preassembled. National regulations for power operated windows must be observed. The manufacturer's instructions are mandatory. If necessary documents are missing, these are to be inquired about the Rodeca GmbH.

The use as well as the project-related suitability test of electronic components is the responsibility of the customer.

Glazing on-site with Rodeca translucent building elements

If a window is glazed on site, this should be carried out on a suitable level surface. It must be excluded that the window warps during the disassembly of sash profiles. All dissolved components must be sealed again with suitable sealants by the customer during assembly, this applies in particular to the miter cuts of the aluminum.

Maintenance and care

All gaskets must be checked and cleaned at regular intervals for correct seating. All moving fittings must be lubricated with acid-free or resin-free grease or oil at least once a year and retighten the fastening screws if necessary. All electronic components used are to be maintained by specialist companies at prescribed intervals.

Cleaning of polycarbonate

Pure water cleaning systems (osmosis process) have proven themselves. In addition to surface cleaning with soft brushes, if dirt is present in the area of the coupling, the deposited dirt can be cleaned using a high-pressure cleaner in conjunction with the pure water method. Alternatively, water with a small percentage of neutral cleaning agents. No use of glass cleaner, rubbing agents or sharp edged subjects. No alkaline or tensile agents to be used.

Cleaning of aluminium

In order to preserve the appearance of the aluminum components, cleaning is required at certain intervals, usually twice a year, depending on the level of pollution from environmental factors and the client's perceptions. After assembling the components, basic cleaning must be carried out to remove any dirt. These are clean towels or sponges. Anodized surfaces are to clean with warm water, a chlorine-free cleaning agent (e.g., rinse) is added. It should only be worked with a cloth or sponge and water. For heavily soiled surfaces we recommend the use of special anodising agents whose cleaning effect is achieved by abrasives. For powder-coated components, light soiling is described in the same way as for anodised components. After cleaning, rinse well with clean water. Also clean the frame rebate and check the weep holes in the windows - blockages must be removed immediately.

Miscellaneous

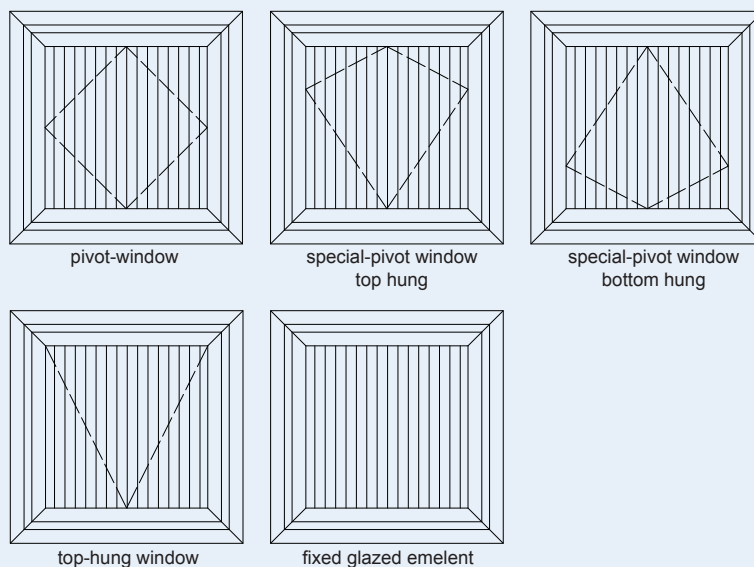
The aforesaid information and our application technological advice in words, written and through tries, are carried out to best of one's knowledge. This information is non-binding advice even in regards to property rights of third parties. Our advice does not release you from your responsibility to proof self dependently our current advices - especially our safety data sheets and technical information - and to test if our products in regards to applicability for the intended system and use. Application, use and handling of our products – produced from you based on our application technological advice - take place out of our control and therefore you are solely responsible. The sale of our products is carried out according to our current general terms and conditions. Please check before handling if our products are applicable for the intended purpose.

8.0.0.0

Windows

Series 80 | non-thermally broken window system

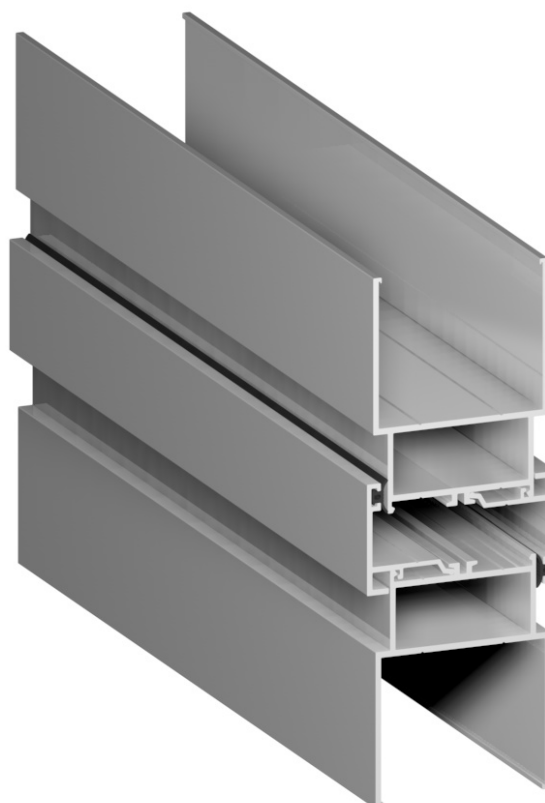
Stand: 10/19



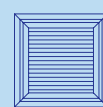
Series 80

non-thermally broken aluminium window system
for 40mm polycarbonate glazing or insulating glass

Pivot-window
Special-pivot window top-hung
Special-pivot window bottom-hung
Top-hung window
Fixed glazed element



80

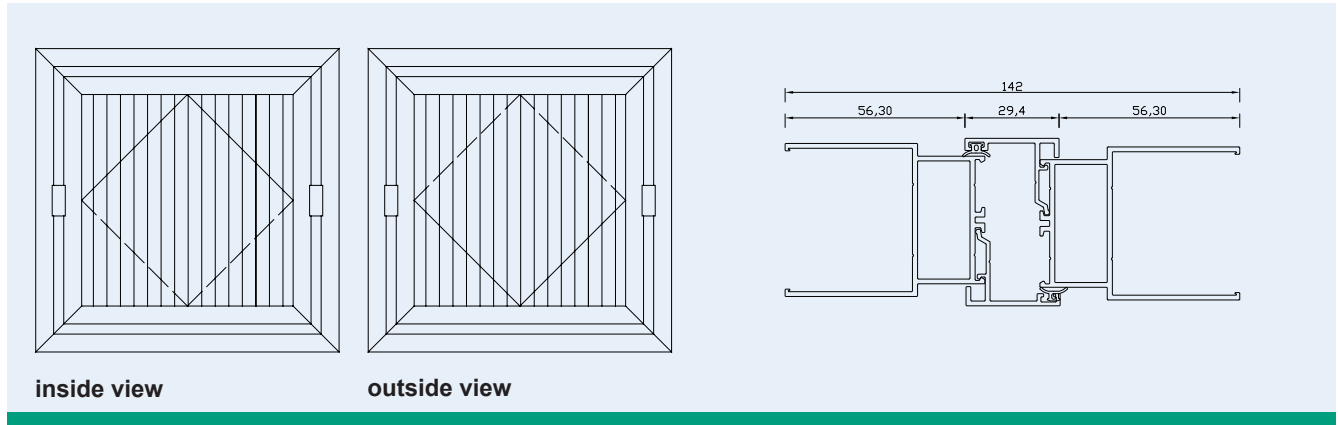


8.0.0.1

Windows

Series 80 | non-thermally broken window system

Stand: 10/19



Horizontal pivot window

Pivot window, inward opening at the top, consisting of non-thermally broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing : 40mm polycarbonate panels
- Minimum width: 700 mm
- Minimum height: 700 mm
- Maximum width: 1555 mm
- Maximum height: 1500 mm
- Maximum area: 1,5 m²
- System width: 1055mm / 1555mm
- Standard dimensions: W*H 1055 mm * 1055 mm
W*H 1055 mm * 1500 mm

The system width can be used, if a window shall replace 2 or 3 panels in a facade.

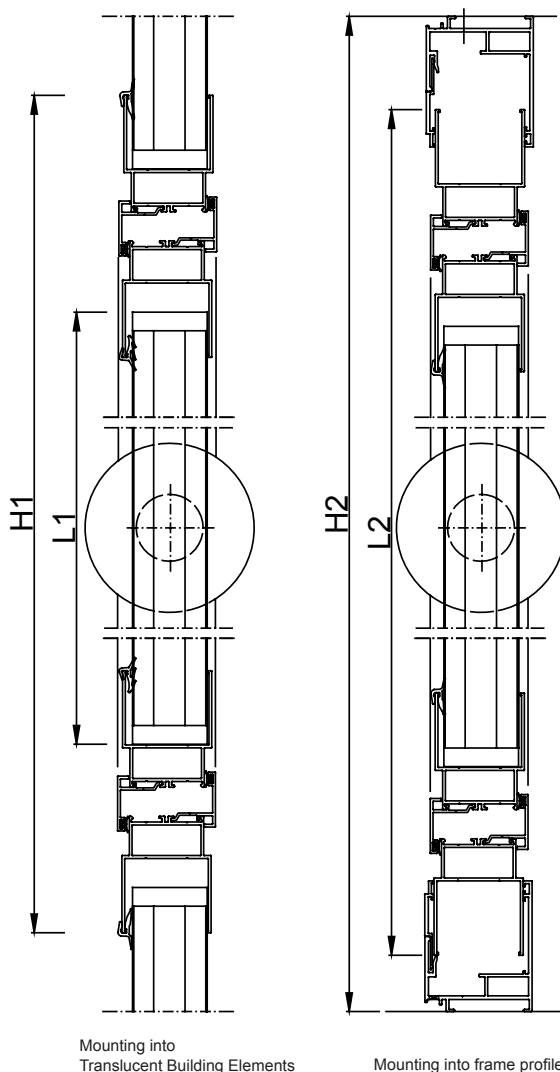
Pivot windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.

Dimension 'L1': height of polycarbonate glazing
Outer dimension 'H1' - 215 mm = height of glazing 'L1'

Dimension 'L2' for mounting into Rodeca frame profiles:
'H2' = height incl. frame profile
'L2' = height of window
Dimension for mounting into Rodeca frame profiles 'H2' - x = L2

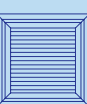
Frame profiles	top profile 414012 / 454012	top profile 414002 / 454002
base profile 414011 / 454011	80 mm	100 mm
base profile 414001 / 454001	110 mm	130 mm

In case of using base profile 414001 / 454001 the window must be elevated and fixed inside of profile.



Mounting into
Translucent Building Elements

Mounting into frame profile

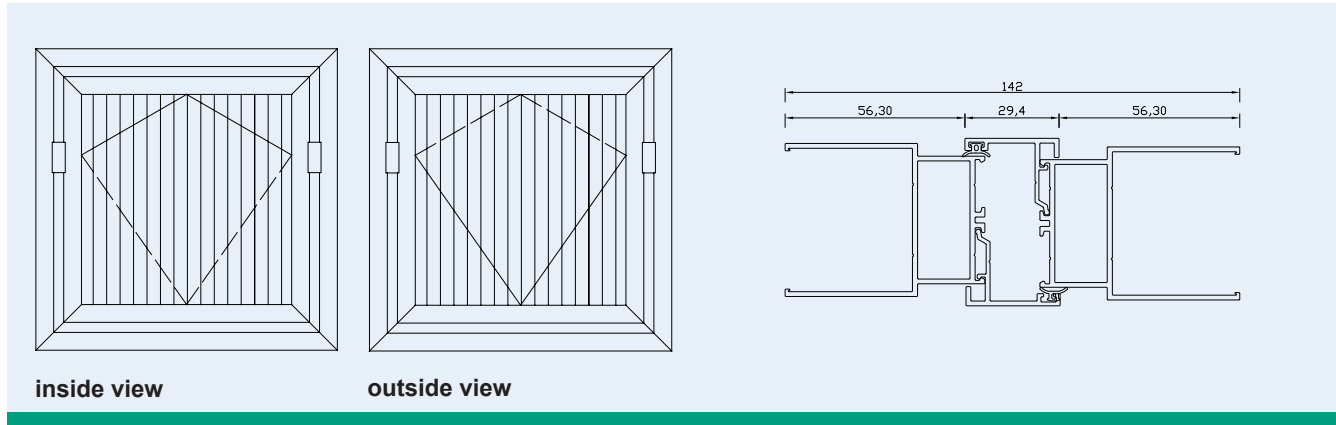


8.0.0.2

Windows

Series 80 | non-thermally broken window system

Stand: 10/19



Special-pivot window top-hung

Special-pivot window top-hung (eccentric displaced pivot bearing) 2/3 of the lower area open outwards, consisting of non-thermally broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing : 40mm polycarbonate panels
- Minimum width: 700 mm
- Minimum height: 700 mm
- Maximum width: 1555 mm
- Maximum height: 1500 mm
- Maximum area: 1,5 m²
- System width 1055 mm / 1555 mm

The system width can be used, if a window shall replace 2 or 3 panels in a facade.

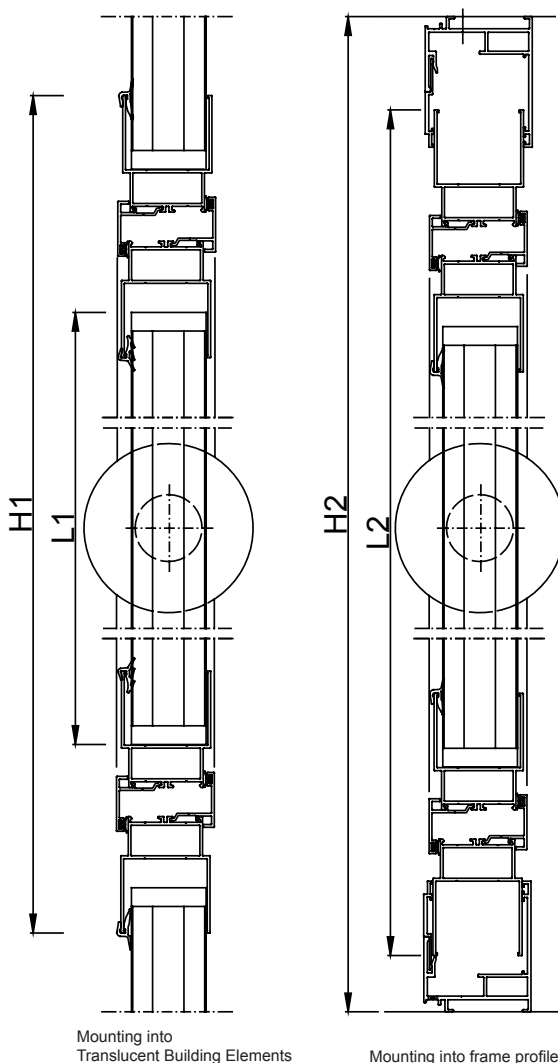
Special-pivot windows are to be fixed to substructure torsion resistant. The installation instructions must be observed

Dimension 'L1': height of polycarbonate glazing
Outer dimension 'H1' - 215 mm = height of glazing 'L1'

Dimension 'L2' for mounting into Rodeca frame profiles:
'H2' = height incl. frame profile
'L2' = height of window
Dimension for mounting into Rodeca frame profiles 'H2' - x = L2

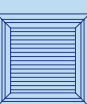
Frame profiles	top profile 414012 / 454012	top profile 414002 / 454002
base profile 414011 / 454011	80 mm	100 mm
base profile 414001 / 454001	110 mm	130 mm

In case of using base profile 414001 / 454001 the window must be elevated and fixed inside of profile.



Mounting into
Translucent Building Elements

Mounting into frame profile

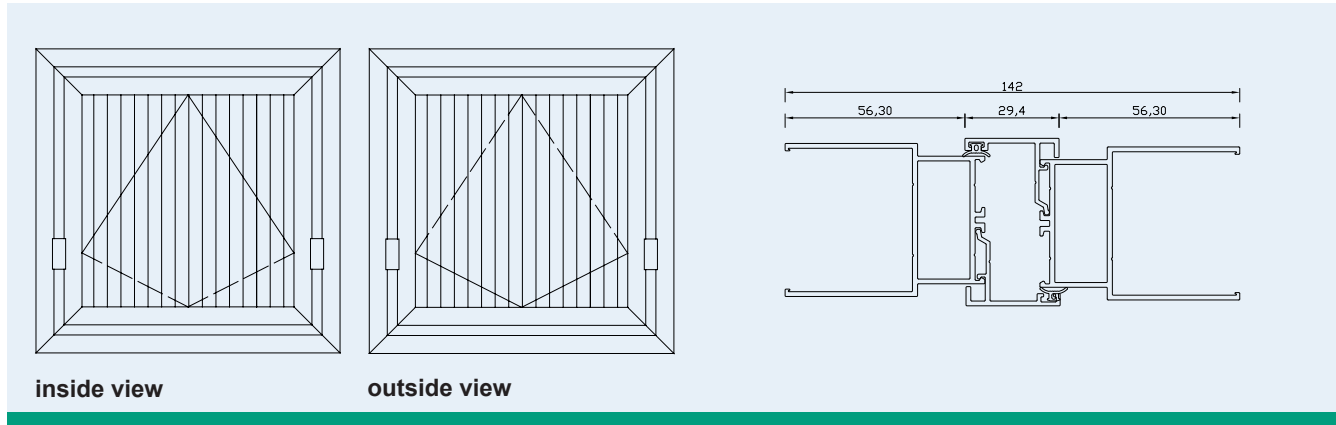


8.0.0.3

Windows

Series 80 | non-thermally broken window system

Stand: 10/19



Special-pivot window bottom-hung

Special-pivot window bottom-hung (eccentric displaced pivot bearing) 2/3 of the upper area open inwards, consisting of non-thermally broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing : 40mm polycarbonate panels
- Minimum width: 700 mm
- Minimum height: 700 mm
- Maximum width: 1555 mm
- Maximum height: 1500 mm
- Maximum area: 1,5 m²
- System width: 1055 mm / 1555 mm

The system width can be used, if a window shall replace 2 or 3 panels in a facade.

Special-pivot windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.

Dimension 'L1':

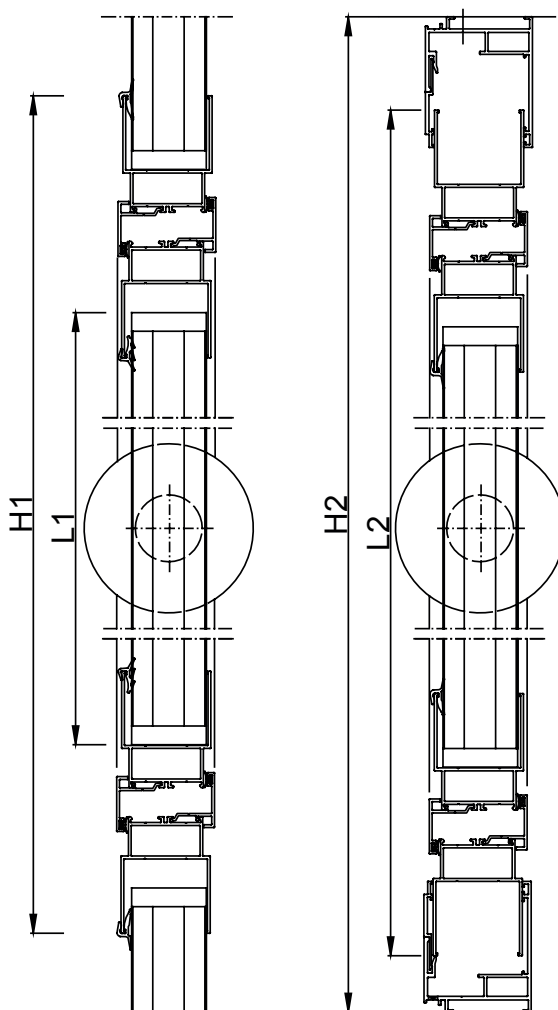
Outer dimension 'H1' - 215 mm = height of glazing 'L1'

Dimension 'L2' for mounting into Rodeca frame profiles:

'H2' = height of polycarbonate glazing

'L2' = height of window

Dimension for mounting into Rodeca frame profiles 'H2' - x = L2

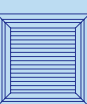


Mounting into
Translucent Building Elements

Mounting into frame profile

Frame profiles	top profile 414012 / 454012	top profile 414002 / 454002
base profile 414011 / 454011	80 mm	100 mm
base profile 414001 / 454001	110 mm	130 mm

In case of using base profile 414001 / 454001 the window must be elevated inside of profile.

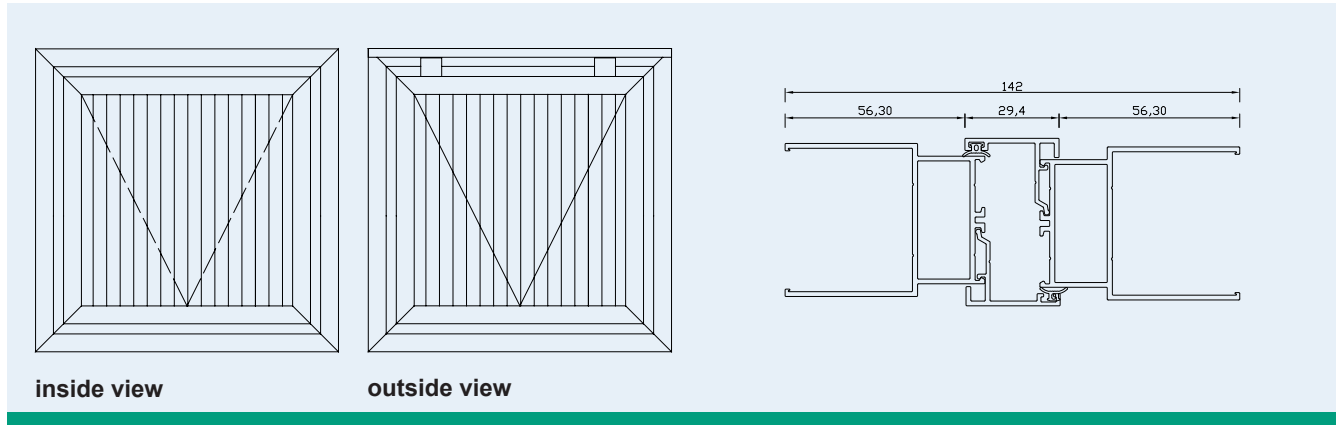


8.0.0.4

Windows

Series 80 | non-thermally broken window system

Stand: 10/19



Top-hung window

Top-hung window, outwards opening at the bottom, consisting of non-thermally broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing : 40mm polycarbonate panels
- Minimum width: 700 mm
- Minimum height: 700 mm
- Maximum width: 1555 mm
- Maximum height: 1500 mm
- Maximum area: 1,5 m²
- System width: 1055 mm / 1555 mm

The system width can be used, if a window shall replace 2 or 3 panels in a facade.

Top-hung windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.

Dimension 'L1':

Outer dimension 'H1' - 215 mm = height of glazing 'L1'

Dimension 'L2' for mounting into Rodeca frame profiles:

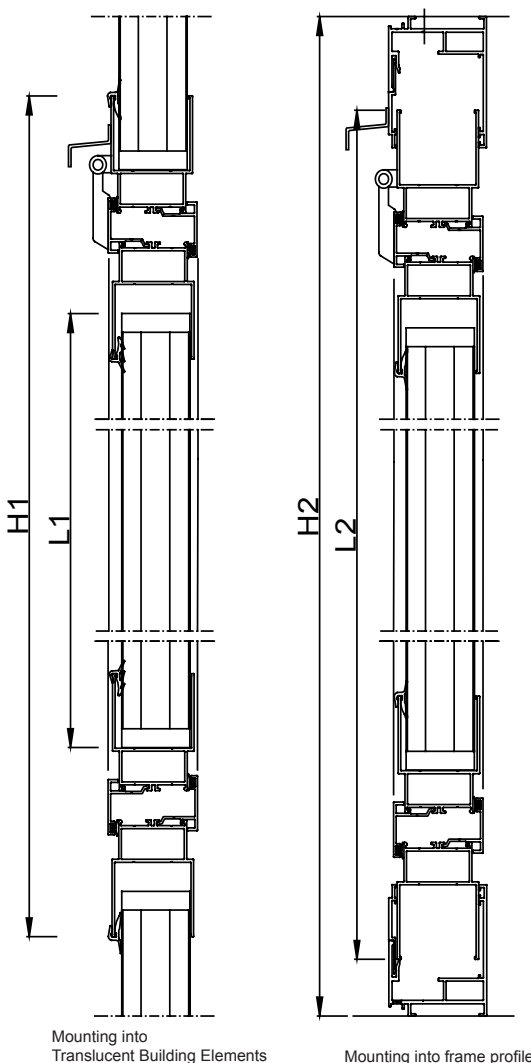
'H2' = height of polycarbonate glazing

'L2' = height of window

Dimension for mounting into Rodeca frame profiles 'H2' - x = L2

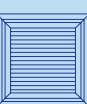
Frame profiles	top profile 414012 / 454012	top profile 414002 / 454002
base profile 414011 / 454011	80 mm	100 mm
base profile 414001 / 454001	110 mm	130 mm

In case of using base profile 414001 / 454001 the window must be elevated inside of profile.



Mounting into
Translucent Building Elements

Mounting into frame profile

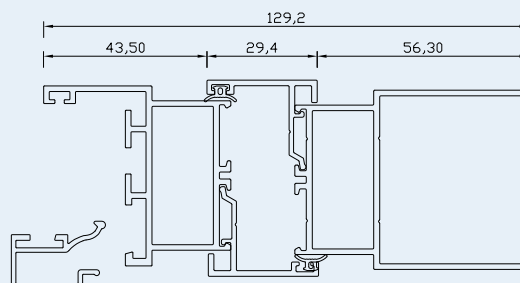
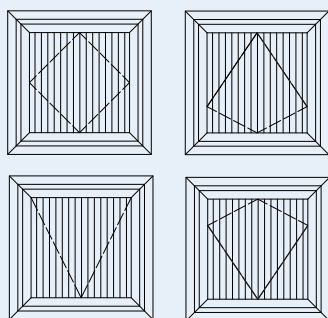


8.0.0.5

Windows

Series 80 | non-thermally broken window system

Stand: 10/19



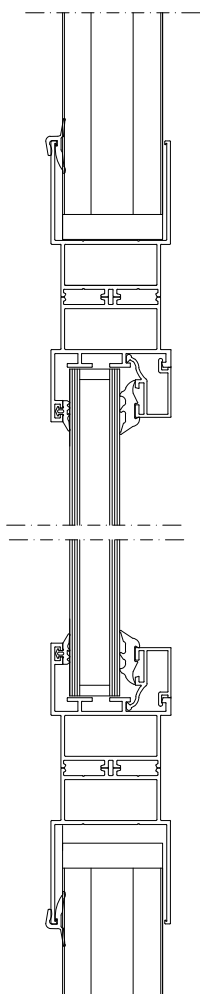
Window prepared for glazing with 20mm insulated glass

Window consisting of non-thermally broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles. All aforementioned variants are possible.

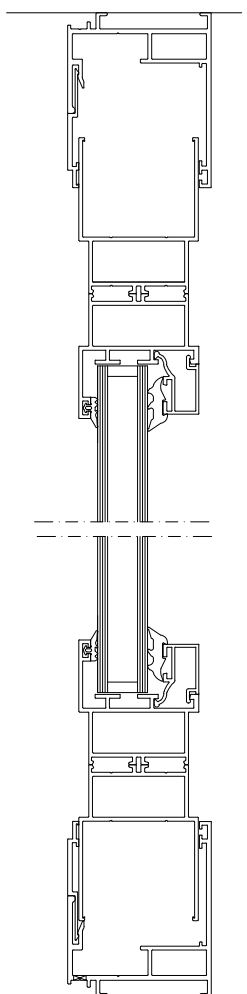
- Glazing : 20mm insulation glass on site
- Minimum width: 700 mm
- Minimum height: 700 mm
- Maximum width: 1555 mm
- Maximum height: 1500 mm
- Maximum area: 1,5 m²
- System width: 1055 mm / 1555 mm

The system width can be used, if a window shall replace 2 or 3 panels in a facade.

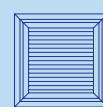
Windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.



Mounting into
Translucent Building Elements



Mounting into frame profile

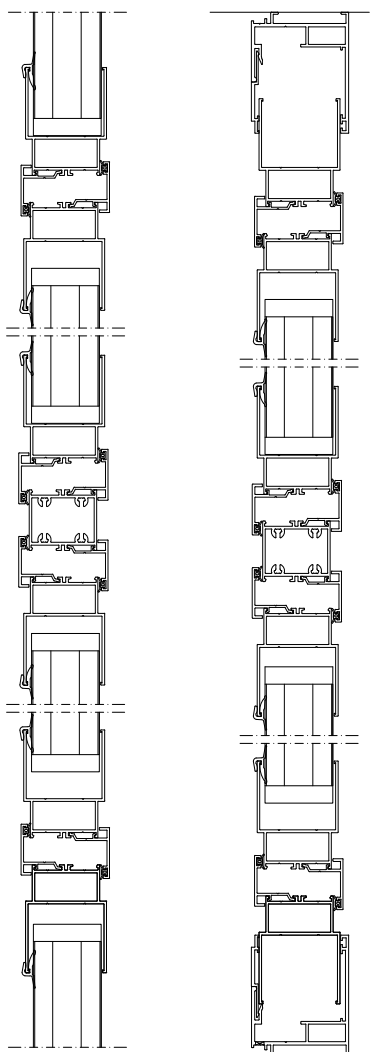
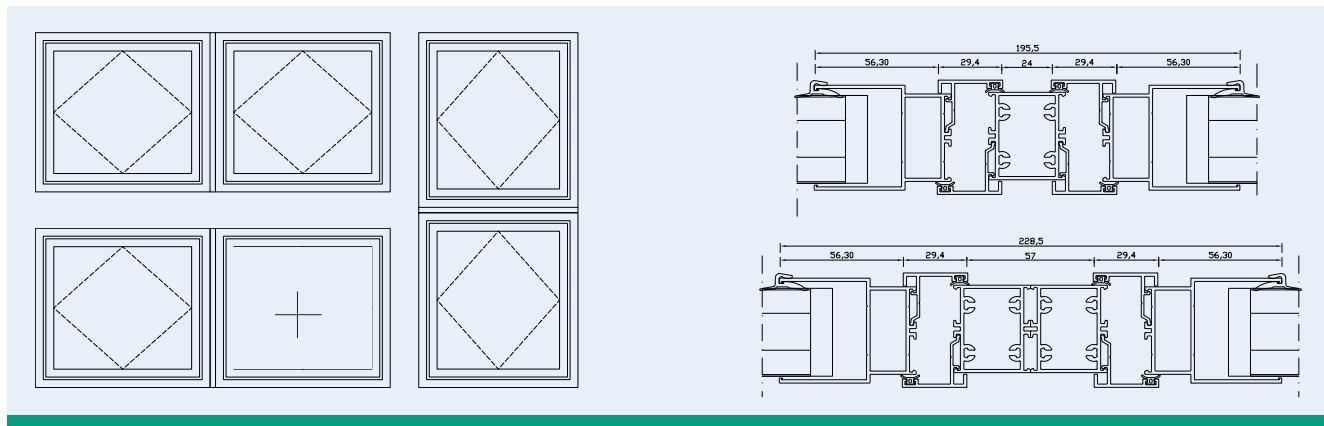


8.0.0.6

Windows

Series 80 | non-thermally broken window system

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Mounting into
Translucent Building Elements

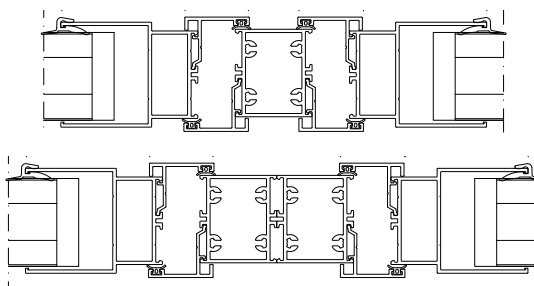
Mounting into frame profile

Combining element

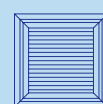
Combining element consisting of non thermal broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles. All aforementioned variants are possible.

- Glazing : 40mm polycarbonate panels or 20mm insulation glass on site
- Minimum width of single element: 700 mm
- Minimum height of single element: 700 mm
- Maximum width of single element: 1555 mm
- Maximum height of single element: 1500 mm
- Maximum area of single element: 1,5 m²
- Minimum width of combining element: 3000 mm
- Minimum height of combining element: 3000 mm

Windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.



Depending on the structural conditions and choice of operation, one or two transoms are to be used.



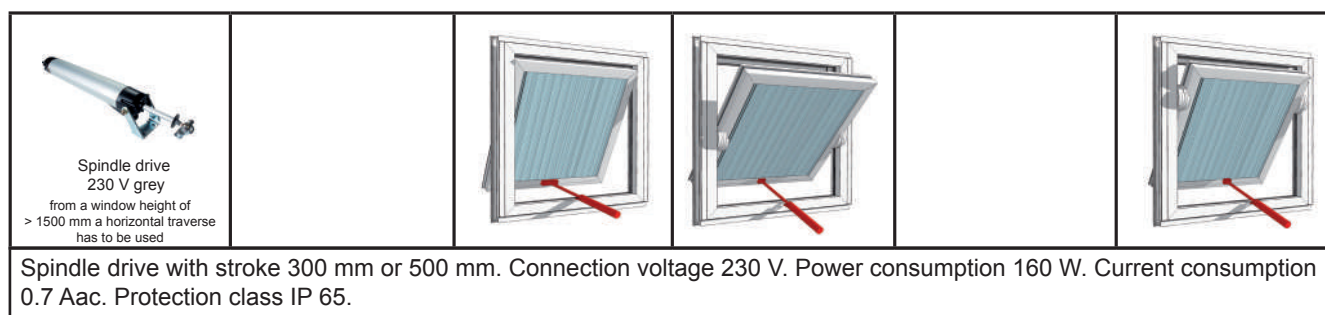
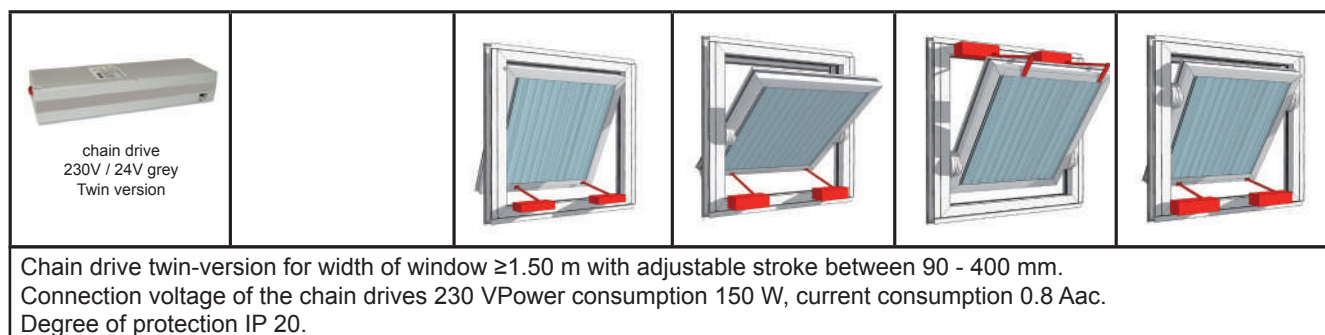
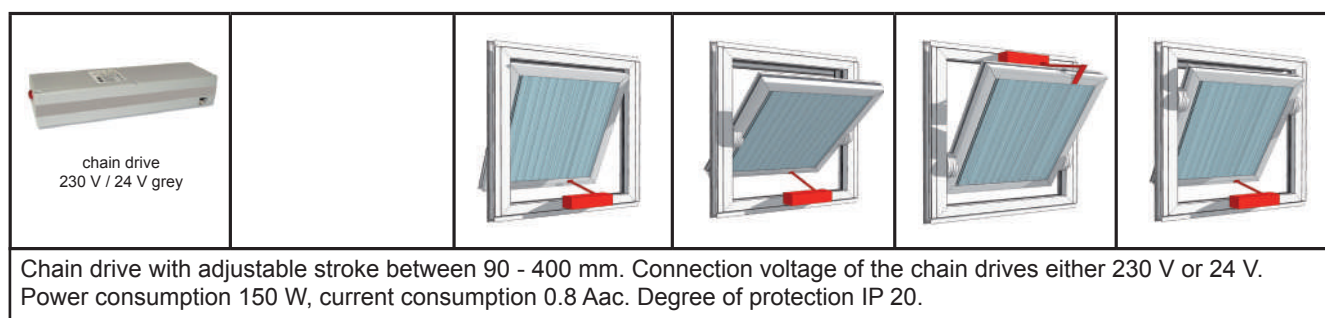
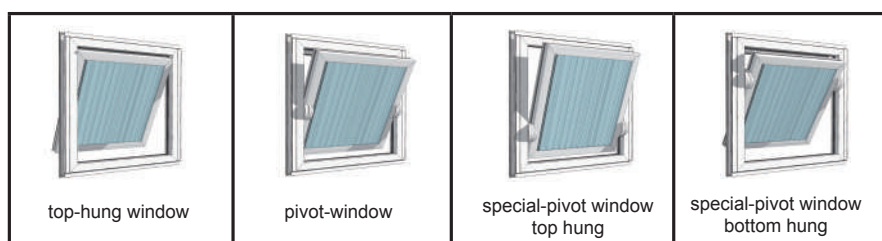
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Windows

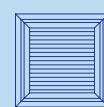
Series 80 | non-thermally broken window system

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Operation 40 mm electrical



The electrical operations shown above, are standard items from stock and must be installed and connected on site by appropriate specialist companies.



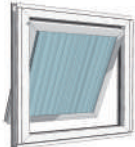
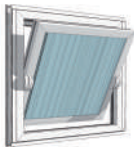
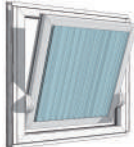
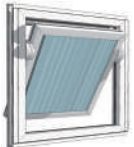
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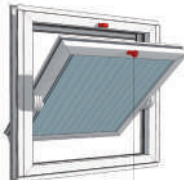
Windows





Series 80 | non-thermally broken window system

Stand: 10/19

Operation 40 mm manual

			
top-hung window	pivot-window	special-pivot window top-hung	special-pivot window bottom-hung

					
Fanlight Catch / cable/ hook plate					
Fanlight Catch made of aluminum silver incl. 3 m cable made of white PP. Adjustment chain silver and hook plate black.					

					
Hand lever opener					
Hand lever made of aluminum silver. Spacing width 230 mm.					

More operations possible on request.

8.0.1.2

Windows

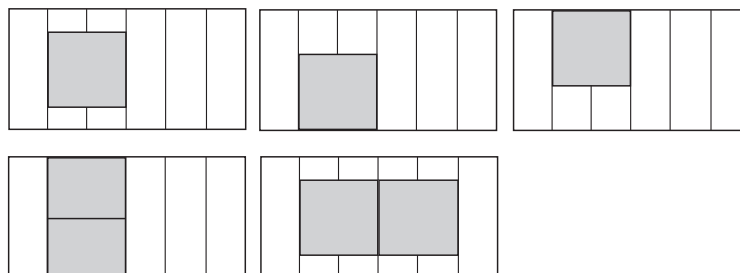
Series 80 | non-thermally broken window system

Stand: 10/19

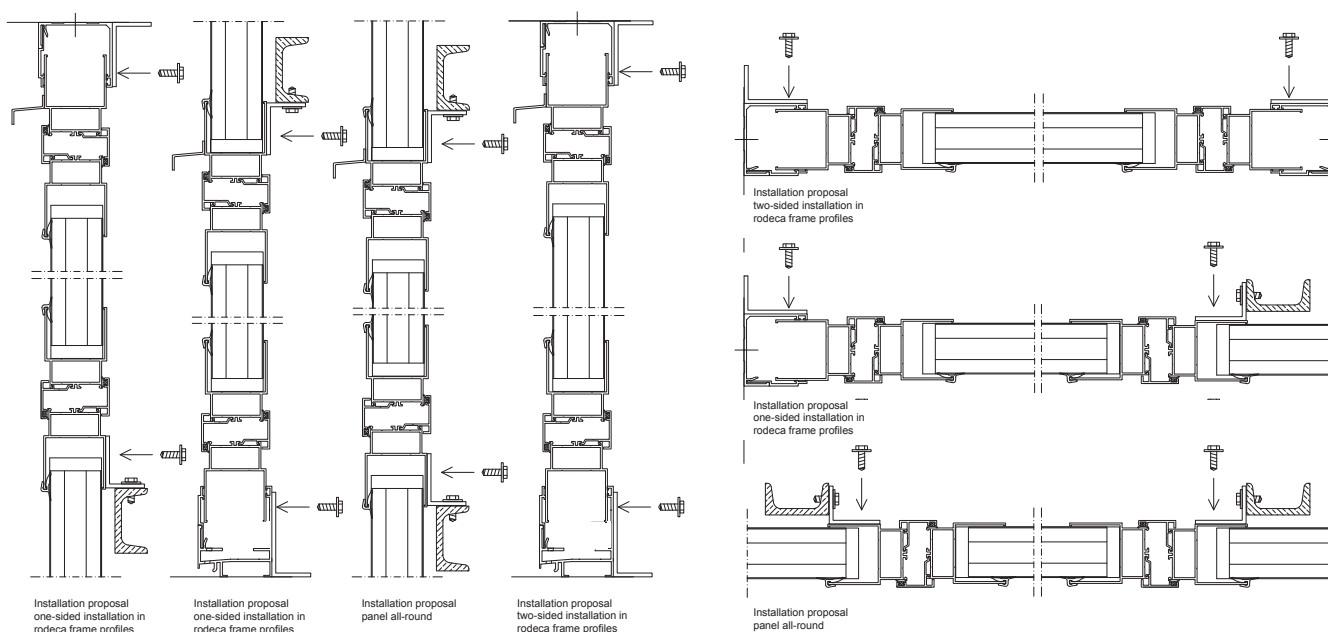
Installation instructions / options 40 mm

Installation options

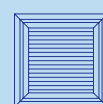
Windows with a thickness of 40 mm can be connected either peripherally to panel glazing or to rodeca frame profiles on several sides. Horizontally or vertically divided combining elements are possible. When placing an order, indicate the appropriate installation situation.



Installation examples



Windows are to be fixed torsion-resistant to an on-site substructure. The self-weight of window may not be transferred to the frame profile. The mounting level of window is the window frame. The position, quantity and dimensioning of the substructure must be adapted to the size ratio of the window sash, as well as the project-related load assumptions. An all-round fixing is recommended. Translucent Building Elements may not be used as stiffening elements. Dimensions of used fasteners have to be calculated according to the substrate and load assumptions. Static has to be verified on site according to the project-related loads. Depending on used base profile, the window must be elevated inside of profile. Depending on the used frame profiles, the front plate must be set before or inserted from the side and secured to the upper frame profile by a screw connection. Furthermore, when mounting in Rodeca frame profiles, the inner and outer gaskets of the frame profiles must be removed. The mounting level of the window is to be checked on site. It is mandatory to observe the installation instructions and the care and maintenance instructions.



Order form S80

Windows

Series 80 | non-thermally broken window system

Stand: 10/19

Customer: _____

Order No.: _____ Seller: _____

Window type:

Pivot	<input type="checkbox"/>		
Special-pivot	<input type="checkbox"/>	top-hung <input type="checkbox"/>	bottom-hung <input type="checkbox"/>
Top-hung	<input type="checkbox"/>		
Combining-element	<input type="checkbox"/>	to specify under miscellaneous	
Fixed-glazed-element	<input type="checkbox"/>		

Quantity: _____

Finish:

Mill finish	<input type="checkbox"/>
E6/EV1	<input type="checkbox"/>
RAL	<input type="checkbox"/>

RAL No.: _____

Dimension:

Width x Height: _____ mm * _____ mm

Glazing:

PC 40 mm ☐ glass thickness: 20 mm ☐ glazing on site ☐
glazing ex factory ☐ Panel:

Position of installation:

Framed by panels	<input type="checkbox"/>	
Top		frame profile: _____
Bottom		frame profile: _____
Left side (outside view)		frame profile: _____
Right side (outside view)		frame profile: _____

Installation in Rodeca frame profile:

Height over all: _____ mm

Manual operation:

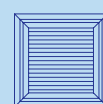
Fanlight Catch	<input type="checkbox"/>
Hand lever opener	<input type="checkbox"/>

Electrical operation: 230 V ☐ 24 V ☐

Chain drive ☐ stroke: _____ mm

Spindle drive ☐ stroke: _____ mm

Miscellaneous: _____

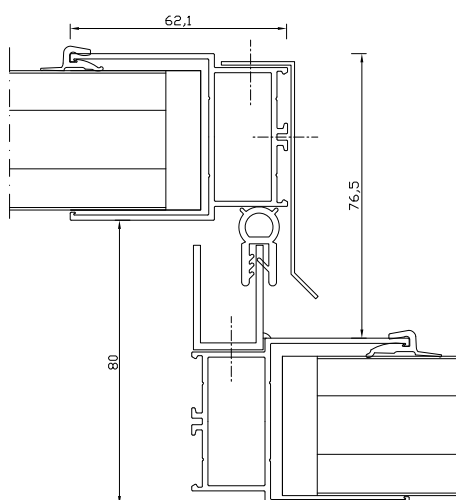
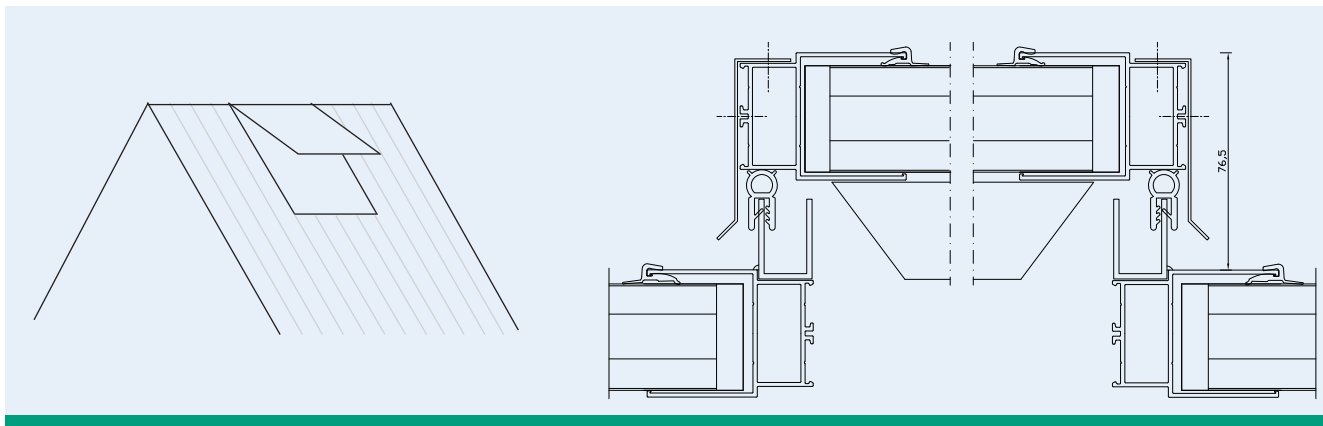


8.0.2.0

Windows

Series 80 | Non-thermally broken top-hung roof window

Stand: 10/19



Version with surrounding frame for Translucent Building Elements

Top-hung roof window

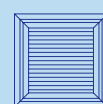
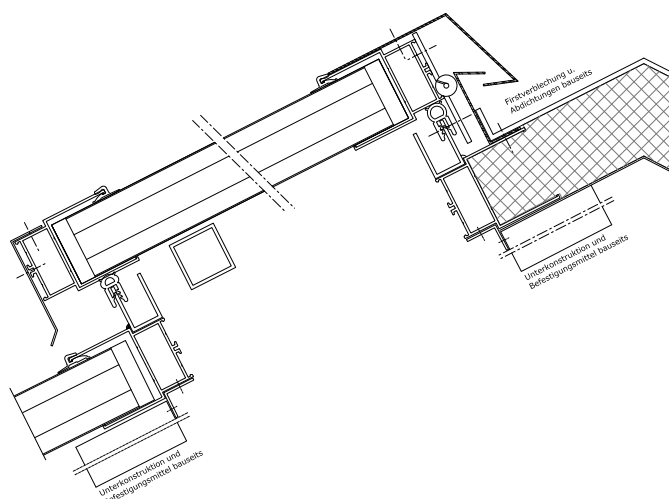
Aluminium top-hung roof window, consisting of non-thermally broken aluminium profiles, with a surrounding frame for Translucent Building Elements.

- Minimum roof pitch: 15°
- Glazing: 40mm polycarbonate panels
- Minimum width: 800mm
- Minimum height: 800mm
- Maximum width: 1055mm
- Maximum height: 1500mm

Roof windows are to be attached to the roof ridge and sealed by ridge plates on site.

Electrical operation with spindle drive or rack and pinion drive.
Manual operation options on request.

Roof windows are to be fixed to substructure torsion resistant.
Dimensions of the roof window and dimensions of the used fasteners have to be calculated according to the substructure by customer.



Order form S80

Windows

Series 80 | Non-thermally broken top-hung roof window

Stand: 10/19

Customer: _____

Order No.: _____ Seller: _____

Window type:

Top-hung roof window, outwards-opening at the bottom

Quantity: _____

Finish:

mill finish

☐

E6/EV1

☐

RAL

☐

RAL No.: _____

Dimensions measured from outer edge of profile:

Width x height: _____ mm * _____ mm

For translucent building elements:

40 mm

☐

without glazing

☐

Glazing of window sash:

40 mm

☐

glazed

☐

panel: _____

Electrical operation

☐

230 V

☐

24 V

Rack and pinion drive

☐

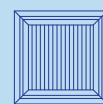
stroke: _____ mm

Spindle drive

☐

stroke: _____ mm

Miscellaneous: _____

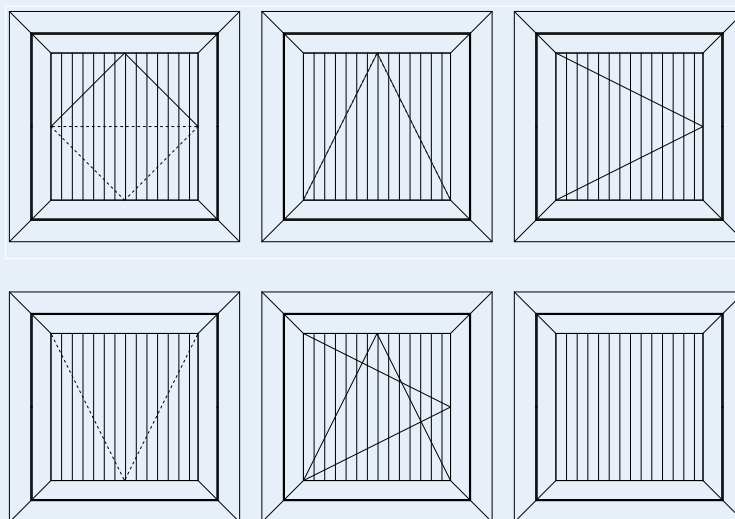


8.5.0.0

Windows

Series 85 | thermally-broken window system

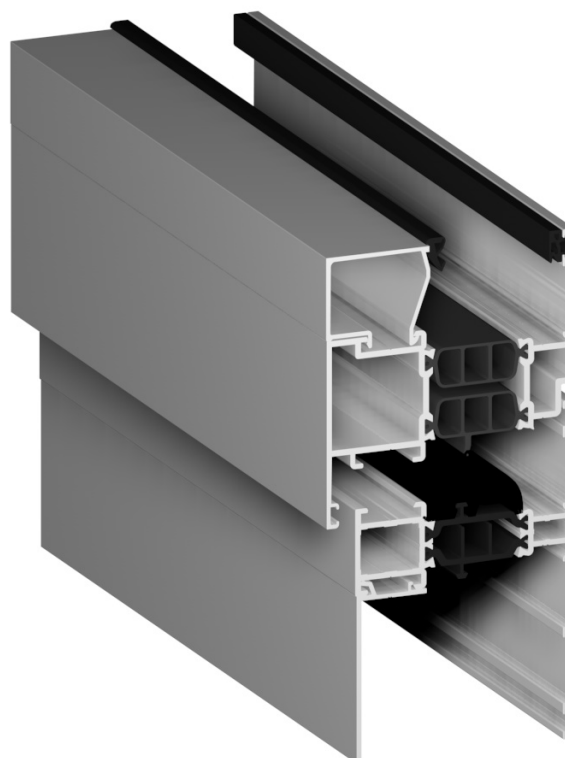
Stand: 10/19



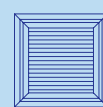
Series 85

Thermally-broken aluminium window system
for polycarbonate glazing with a thickness up to 60mm
and insulation glass up to 48mm

Pivot window
Bottom-hung window
Turn window
Top-hung window
Tilt and turn window
Fixed glazed element



85

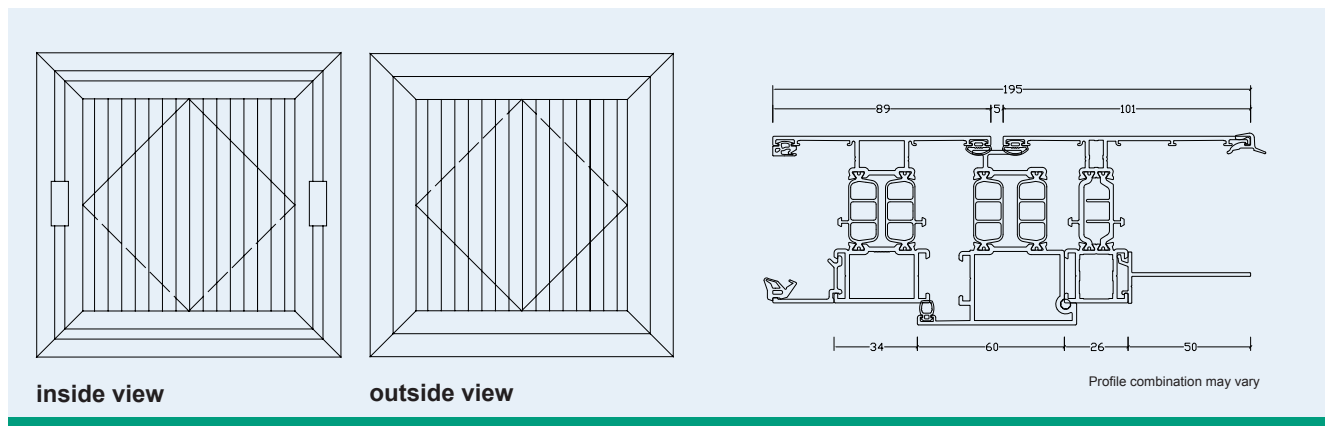


8.5.0.1

Windows

Series 85 | thermally-broken window system

Stand: 10/19



Horizontal pivot window

Pivot window, inward opening at the top, consisting of thermally-broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing: max. 50mm panels, or up to 48mm insulation glass
 - Minimum width: 1000 mm
 - Minimum height: 1000 mm
 - Maximum width: 2000 mm*
 - Maximum height: 2000 mm*
 - System dimensions: 1060 mm / 1560 mm
- *depending on used glazing

The system width can be used, if a window shall replace 2 or 3 panels in a facade.

Pivot windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.

Dimensions for glazing 'L1' on request.

Dimension 'L2' for mounting into Rodeca frame profiles:

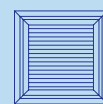
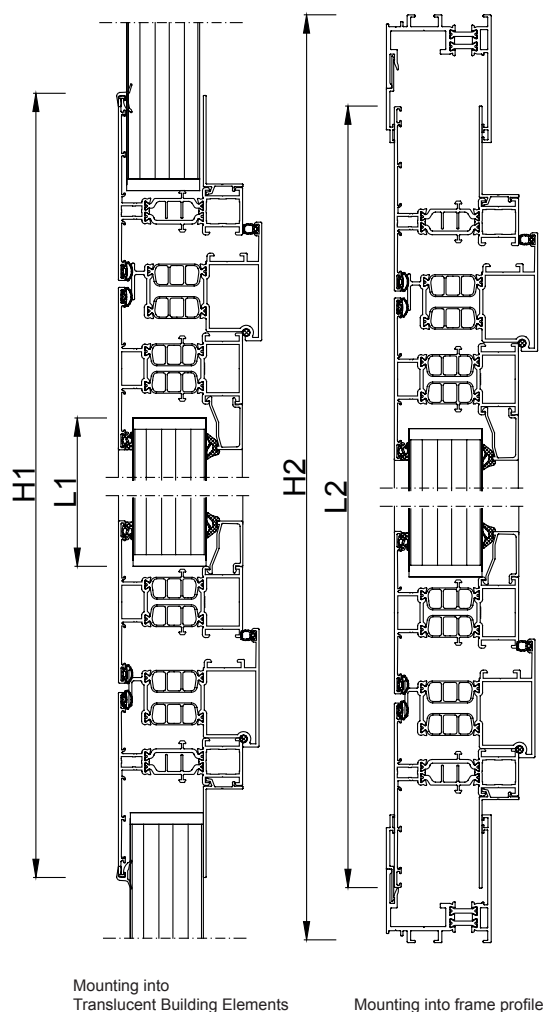
'H2' = height of polycarbonate glazing

'L2' = height of window

Dimension for mounting into Rodeca frame profiles 'H2' - x = L2

Frame profiles	top profile 414012 / 454012 415012 / 455012 / 456012	top profile 414002 / 454002 415002 / 455002 / 456002
base profile 414011 / 454011 415011 / 455011 456011	80 mm	100 mm
base profile 414001 / 454001 415001 / 455001 / 456001	110 mm	130 mm

In case of using base profile 41xx01 / 45xx01 the window must be elevated inside of profile.

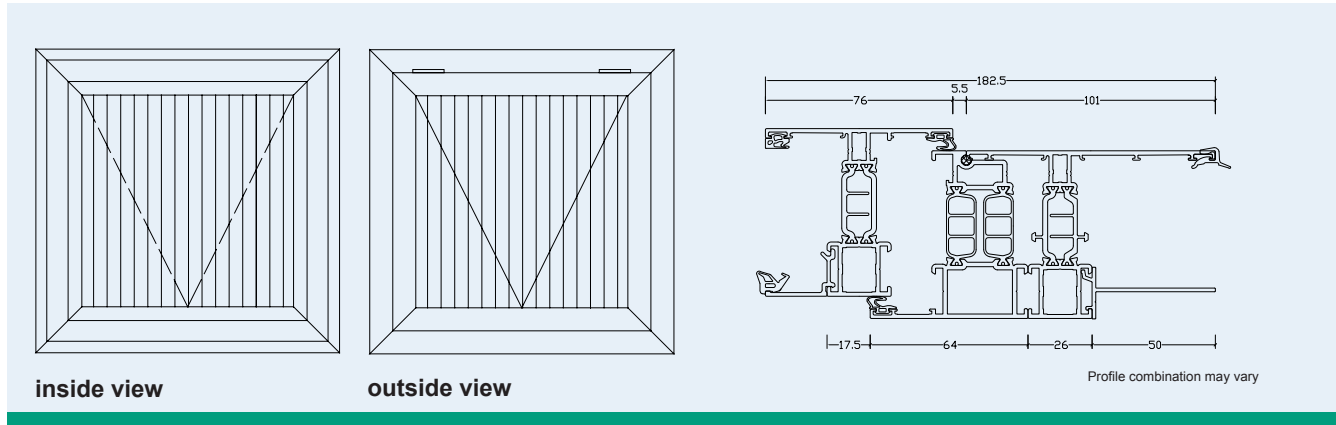


8.5.0.2

Windows

Series 85 | thermally-broken window system

Stand: 10/19



Top-hung window

Top-hung window, outward opening at the bottom, consisting of thermally-broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing: max. 50mm panels, or up to 48mm insulation glass
- Minimum width: 800 mm
- Minimum height: 800 mm
- Maximum width: 1560mm*
- Maximum height: 1500 mm*
- *depending on used glazing
- System dimensions: 1060 mm / 1560 mm

The system width can be used, if a window shall replace 2 or 3 panels in a facade.

Top-hung windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.

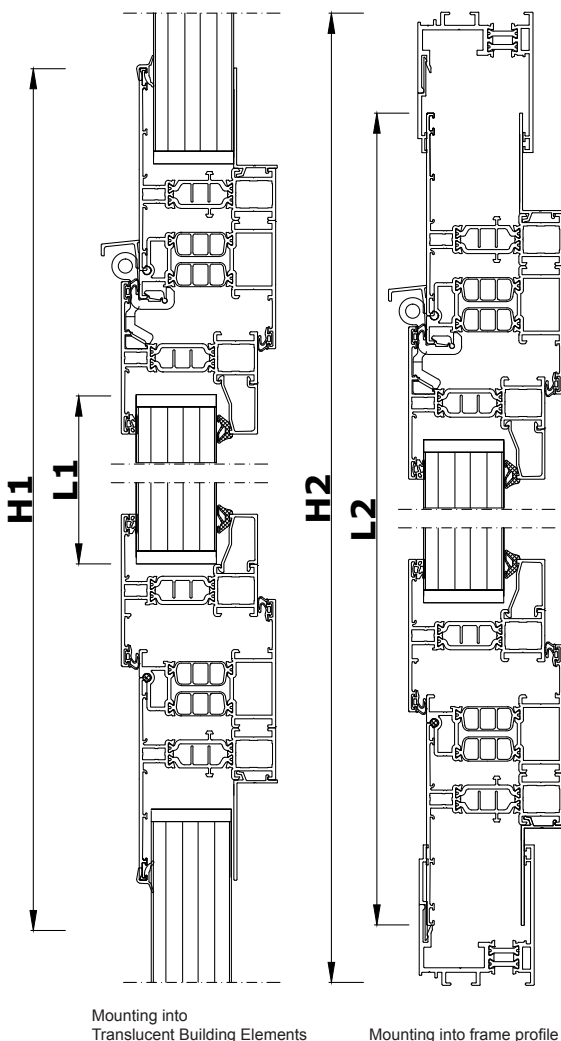
Dimensions for glazing 'L1' on request.

Dimension 'L2' for mounting into Rodeca frame profiles:

'H2' = height of polycarbonate glazing

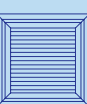
'L2' = height of window

Dimension for mounting into Rodeca frame profiles 'H2' - x = L2



Frame profiles	top profile 414012 / 454012 415012 / 455012 / 456012	top profile 414002 / 454002 415002 / 455002 / 456002
base profile 414011 / 454011 415011 / 455011 456011	80 mm	100 mm
base profile 414001 / 454001 415001 / 455001 / 456001	110 mm	130 mm

In case of using base profile 41xx01 / 45xx01 the window must be elevated inside of profile.

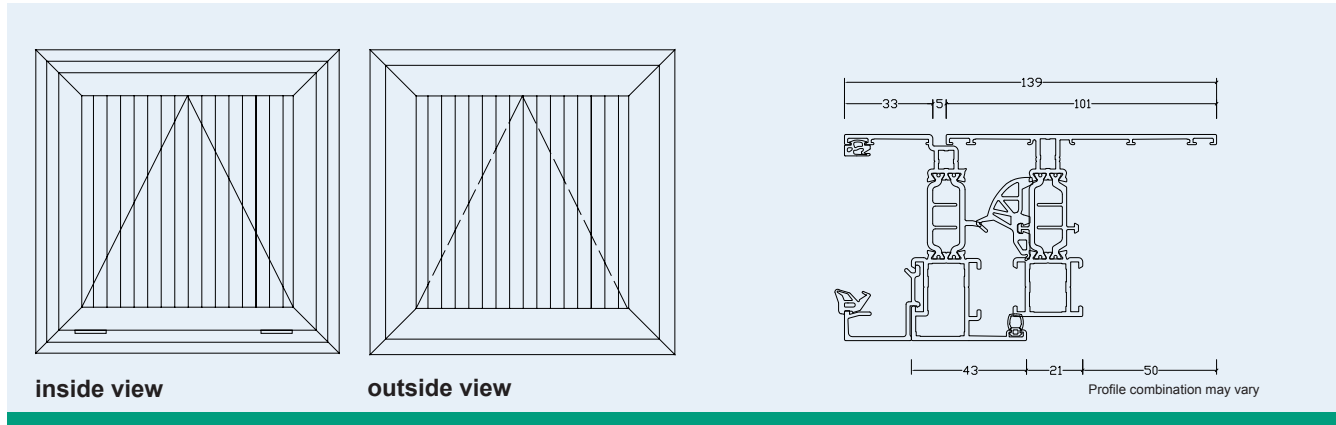


8.5.0.3

Windows

Series 85 | thermally-broken window system

Stand: 10/19



Bottom-hung window

Bottom-hung window, inward opening at the top, consisting of thermally-broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing: max. 60mm panels, or up to 48mm insulation glass
- Minimum width: 800 mm
- Minimum height: 800 mm
- Maximum width: 1400 mm*
- Maximum height: 2000 mm*
- System width: 1060 mm

The system width can be used, if a window shall replace 2 panels in a facade.

Bottom-hung windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.

Dimensions for glazing 'L1' on request.

Dimension 'L2' for mounting into Rodeca frame profiles:

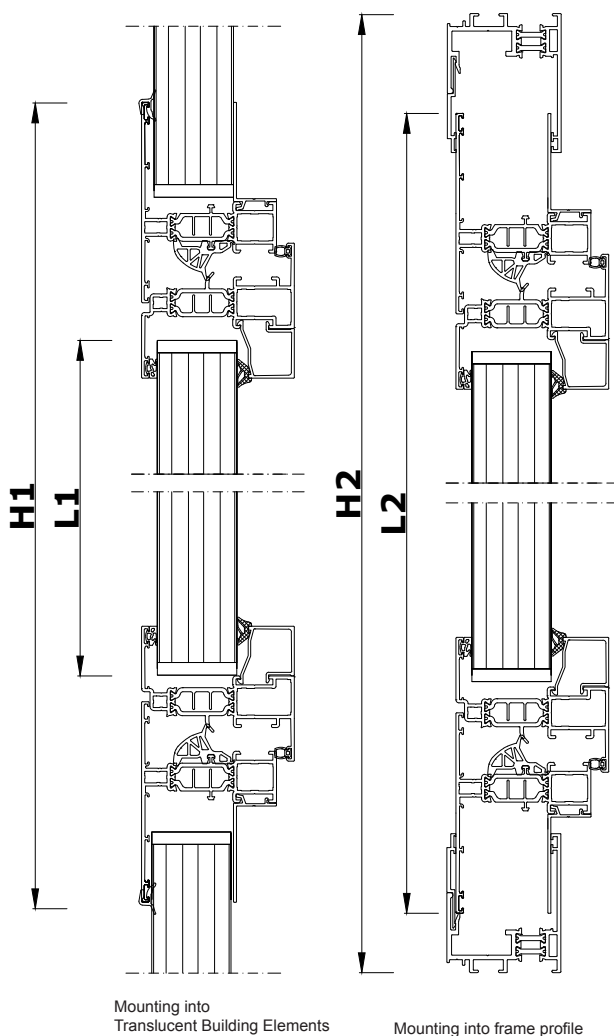
'H2' = height of polycarbonate glazing

'L2' = height of window

Dimension for mounting into Rodeca frame profiles 'H2' - x = L2

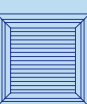
Frame profiles	top profile 414012 / 454012 415012 / 455012 / 456012	top profile 414002 / 454002 415002 / 455002 / 456002
base profile 414011 / 454011 415011 / 455011 456011	80 mm	100 mm
base profile 414001 / 454001 415001 / 455001 / 456001	110 mm	130 mm

In case of using base profile 41xx01 / 45xx01 the window must be elevated inside of profile.



Mounting into
Translucent Building Elements

Mounting into frame profile

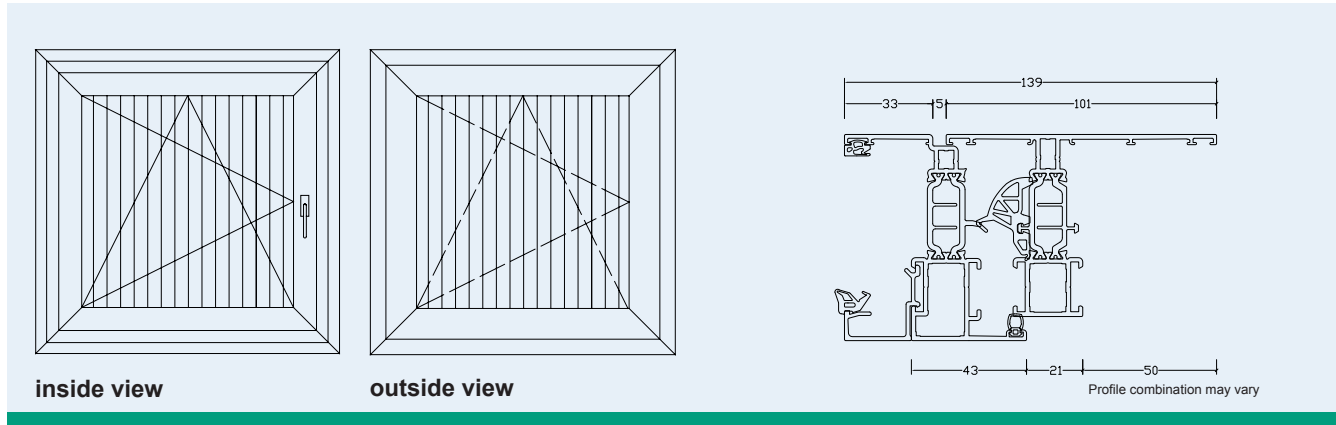


8.5.0.4

Windows

Series 85 | thermally-broken window system

Stand: 10/19



Turn window / tilt and turn window

Turn window or tilt and turn window, inward-opening, consisting of thermally-broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing: max. 60mm panels, or up to 48mm insulation glass
- Minimum width: 800 mm
- Minimum height: 800 mm
- Maximum width: 1400 mm*
- Maximum height: 2000 mm*
- System width: 1060 mm

The system width can be used, if a window shall replace 2 panels in a facade.

Tilt and turn windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.

Dimensions for glazing 'L1' on request.

Dimension 'L2' for mounting into Rodeca frame profiles:

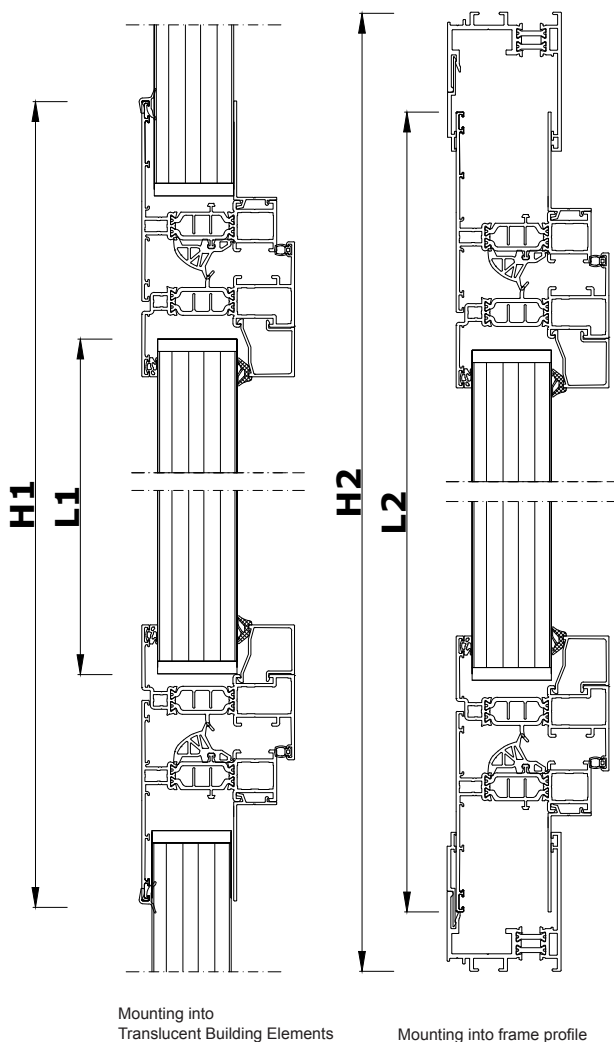
'H2' = height of polycarbonate glazing

'L2' = height of window

Dimension for mounting into Rodeca frame profiles 'H2' - x = L2

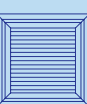
Frame profiles	top profile 414012 / 454012 415012 / 455012 / 456012	top profile 414002 / 454002 415002 / 455002 / 456002
base profile 414011 / 454011 415011 / 455011 456011	80 mm	100 mm
base profile 414001 / 454001 415001 / 455001 / 456001	110 mm	130 mm

In case of using base profile 41xx01 / 45xx01 the window must be elevated inside of profile.



Mounting into
Translucent Building Elements

Mounting into frame profile

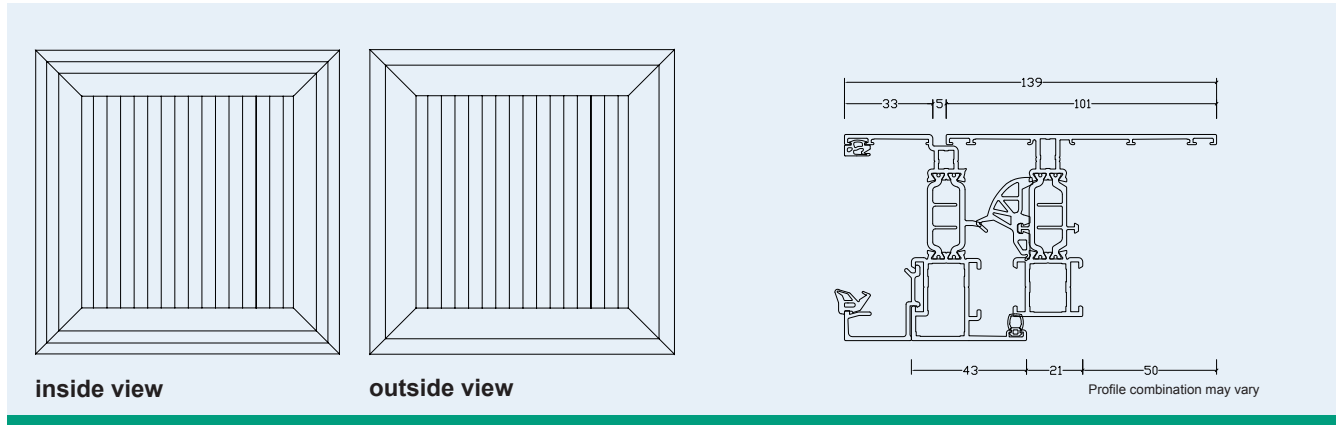


8.5.0.5

Windows

Series 85 | thermally-broken window system

Stand: 10/19



Fixed glazed element

Fixed glazed element consisting of thermally-broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing: up to 60mm panels, or up to 48mm insulation glass
 - Minimum width: 800 mm
 - Minimum height: 800 mm
 - Maximum width: 2000 mm*
 - Maximum height: 2000 mm*
 - Standard widths: 1060 mm / 1560 mm
- *depending on used glazing

The standard width can be used, if a window shall replace 2 or 3 panels in a facade.

Fixed glazed elements are to be fixed to substructure torsion resistant. The installation instructions must be observed.

Dimensions for glazing 'L1' on request.

Dimension 'L2' for mounting into Rodeca frame profiles:

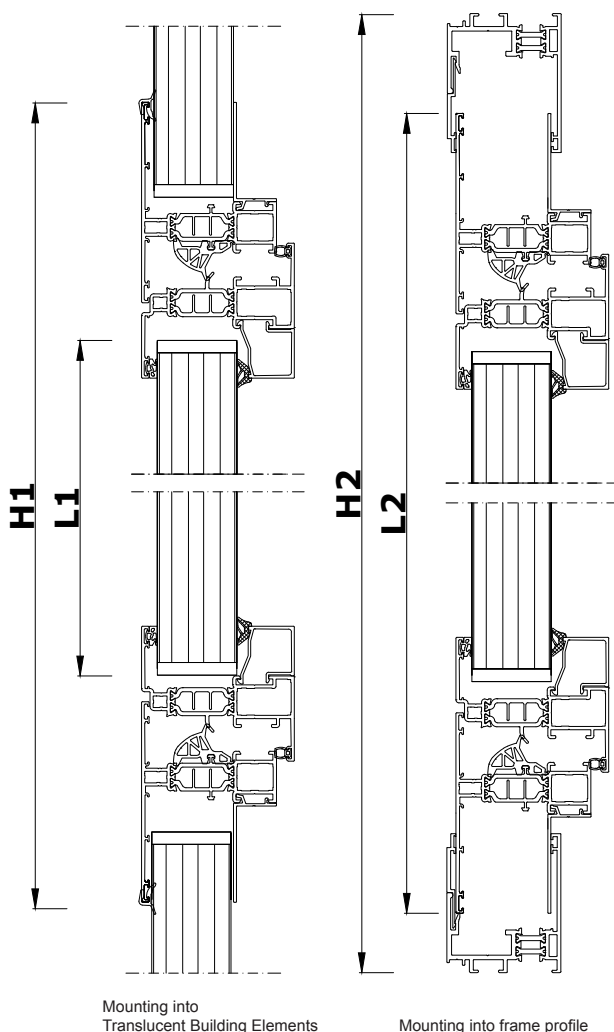
'H2' = height of polycarbonate glazing

'L2' = height of window

Dimension for mounting into Rodeca frame profiles 'H2' - x = L2

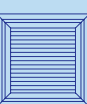
Frame profiles	top profile 414012 / 454012 415012 / 455012 / 456012	top profile 414002 / 454002 415002 / 455002 / 456002
base profile 414011 / 454011 415011 / 455011 456011	80 mm	100 mm
base profile 414001 / 454001 415001 / 455001 / 456001	110 mm	130 mm

In case of using base profile 41xx01 / 45xx01 the window must be elevated inside of profile.



Mounting into
Translucent Building Elements

Mounting into frame profile

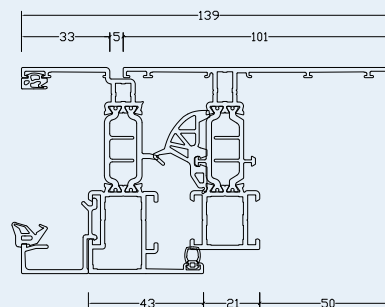
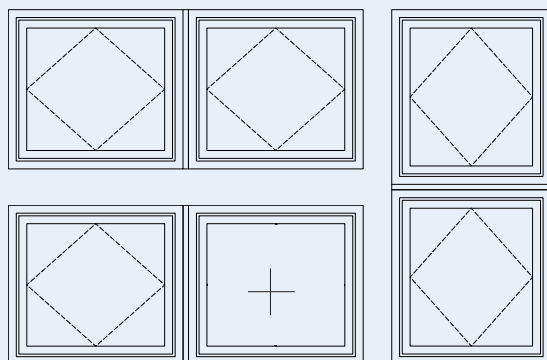


8.5.0.6

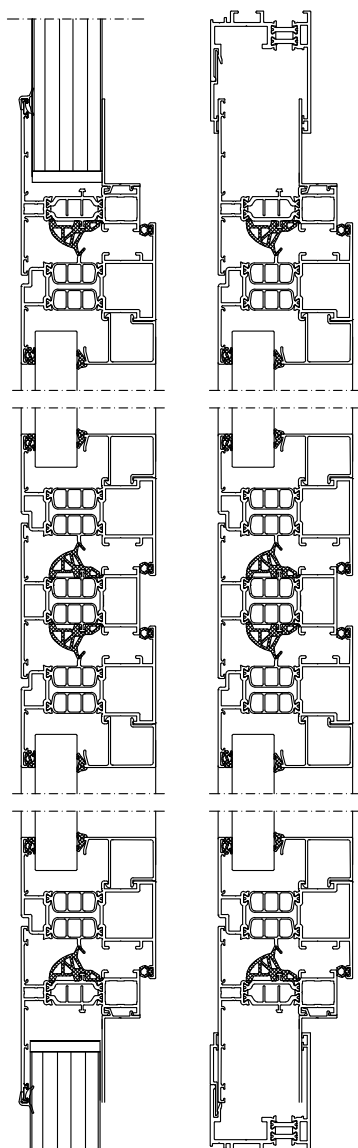
Windows

Series 85 | thermally-broken window system

Stand: 10/19



Example of profile
Profile combination may vary



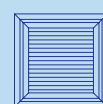
Examples of profile combinations
Profiles may vary

Combining element

Combining element consisting of thermally-broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.
Combination of all opening versions is possible.

- Glazing: up to 60mm polycarbonate panels*, or up to 48 mm insulation glass
*depending on type
- Minimum dimensions depending on type of single-element
- Maximum dimensions depending on type of single-element
- Maximum width of combining element: 3000 mm
- Maximum height of combining element: 3000 mm

Combining elements are to be fixed to substructure torsion resistant.
The installation instructions must be observed.



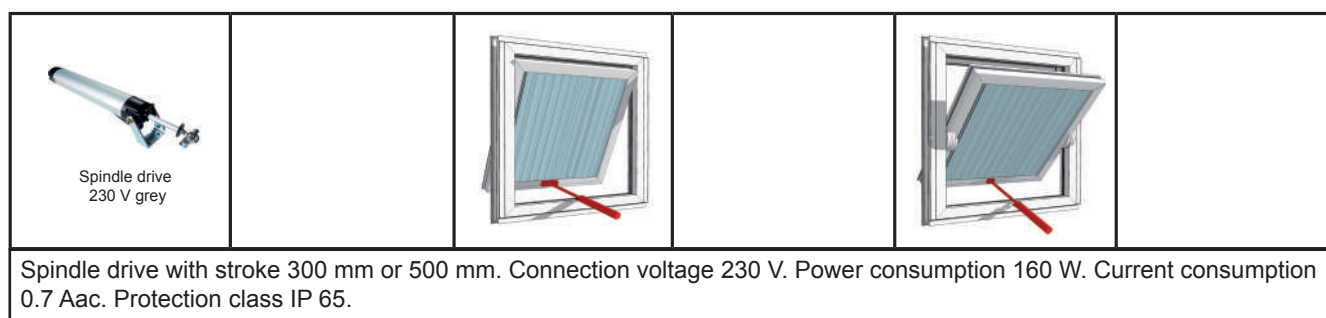
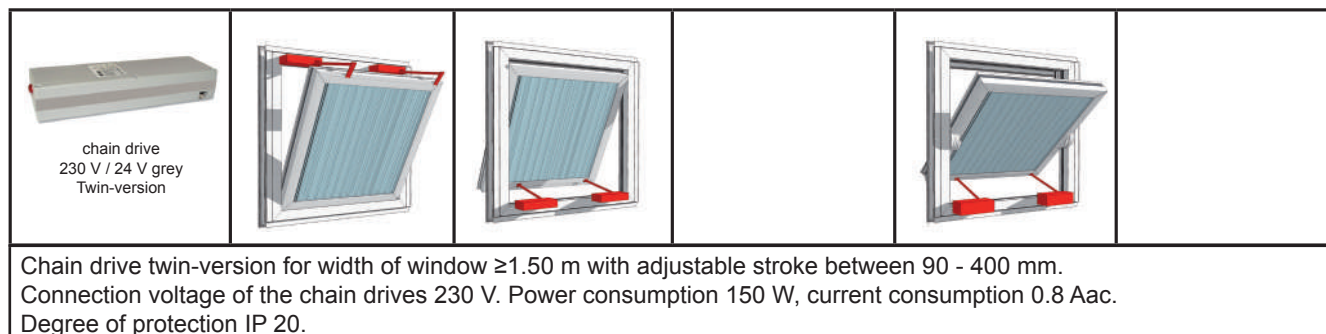
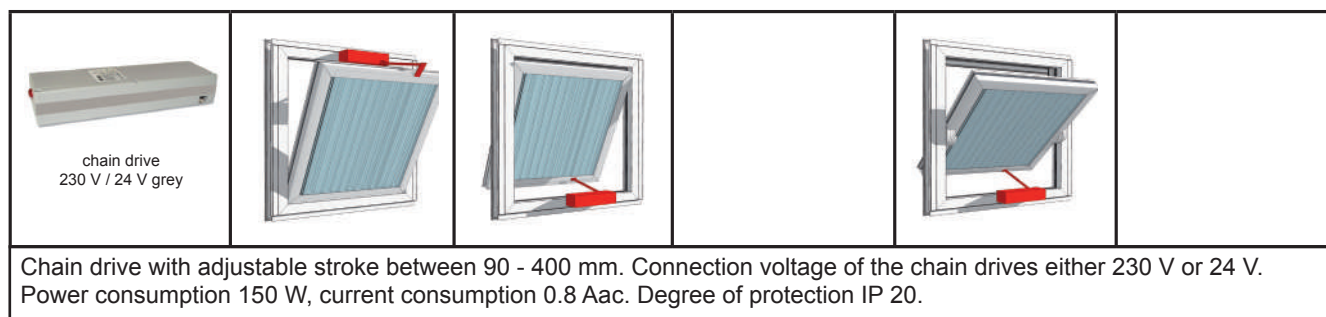
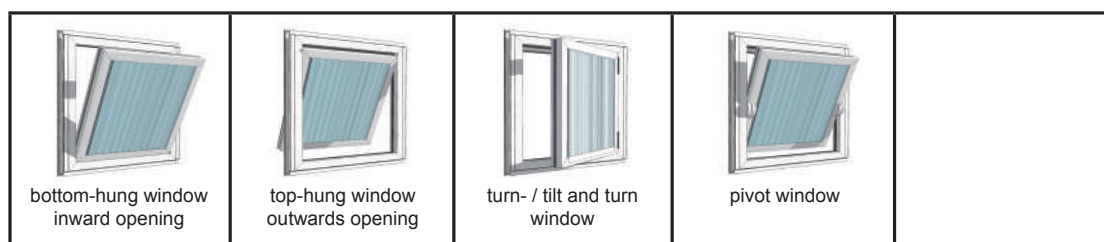
8.5.1.0

Windows

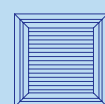
Series 85 | thermally-broken window system

Stand: 10/19

Operation electrical



The electrical operations shown above, are standard items from stock and must be installed and connected on site by appropriate specialist companies.



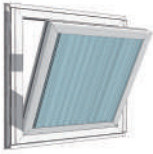
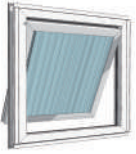

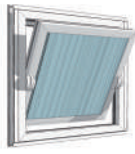
8.5.1.1




Windows


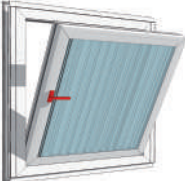

Series 85 | thermally-broken window system

Stand: 10/19

Operations manual

				
Bottom-hung window inward opening	Top-hung window outward opening	Turn- / Tilt and turn window	Pivot window	

					
Hand lever opener					
Hand lever made of aluminum, silver.					

					
Rotary handle					
Rotary handle made of aluminium, silver. Optional rotary handle with lock.					

The manual operations shown above, are standard items from stock. More operation options on request.

8.5.1.2

Windows

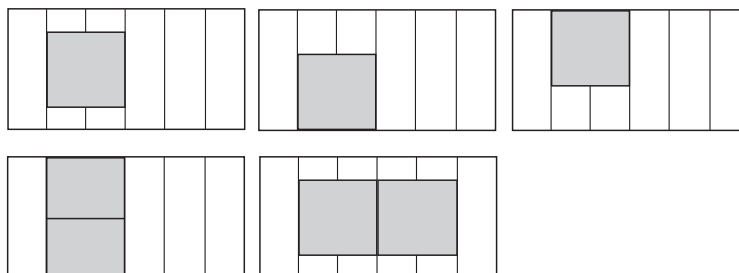
Series 85 | thermally-broken window system

Stand: 10/19

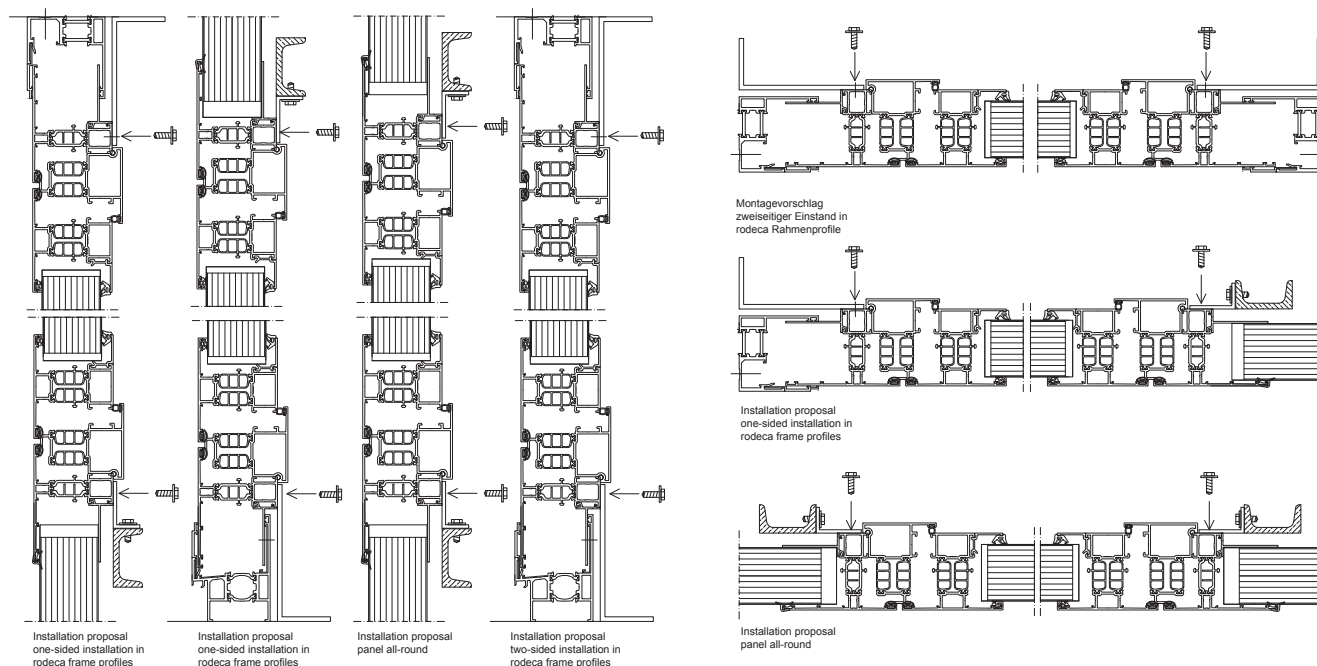
Installation instructions / options

Installation options

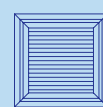
Windows of series 85 can be connected either peripherally to panel glazing or to rodeca frame profiles on several sides. Horizontally or vertically divided combining elements are possible. When placing an order, indicate the appropriate installation situation.



Examples of installation



Windows are to be fixed torsion-resistant to an on-site substructure. The self-weight of window may not be transferred to the frame profile. The mounting level of window is the window frame. The position, quantity and dimensioning of the substructure must be adapted to the size ratio of the window sash, as well as the project-related load assumptions. An all-round fixing is recommended. Translucent Building Elements may not be used as stiffening elements. Dimensions of used fasteners have to be calculated according to the substrate and load assumptions. Static has to be verified on site according to the project-related loads. Depending on used base profile, the window must be elevated inside of profile. Depending on the used frame profiles, the front plate must be set before or inserted from the side and secured to the upper frame profile by a screw connection. Furthermore, when mounting in Rodeca frame profiles, the inner and outer gaskets of the frame profiles must be removed. The mounting level of the window is to be checked on site. It is mandatory to observe the installation instructions and the care and maintenance instructions.



Order form S85

Windows

Series 85 | thermally-broken window system

Stand: 10/19

Customer: _____

Order No.: _____ Seller: _____

Window type:

- | | | | |
|--------------------------------------|--------------------------|--------------------------------|---|
| Pivot window | <input type="checkbox"/> | | |
| Tilt and turn window | <input type="checkbox"/> | DIN left | <input type="checkbox"/> DIN right <input type="checkbox"/> |
| Turn window | <input type="checkbox"/> | | |
| Bottom-hung window (inwards-opening) | <input type="checkbox"/> | | |
| Top-hung window (outwards-opening) | <input type="checkbox"/> | | |
| Combining element | <input type="checkbox"/> | to specify under miscellaneous | |
| Fixed element | <input type="checkbox"/> | | |

Quantity: _____

Finish:

- | | |
|-------------|--------------------------|
| mill finish | <input type="checkbox"/> |
| E6/EV1 | <input type="checkbox"/> |
| RAL | <input type="checkbox"/> |

RAL No.: _____

Dimensions:

Width x height: _____ mm _____ mm

For translucent building elements:

- | | |
|-------|--------------------------|
| 40 mm | <input type="checkbox"/> |
| 50 mm | <input type="checkbox"/> |
| 60 mm | <input type="checkbox"/> |

Glazing of window sash

- | | | |
|-------|--------------------------|---|
| 30 mm | <input type="checkbox"/> | Insulation glass <input type="checkbox"/> thickness: _____ mm |
| 40 mm | <input type="checkbox"/> | |
| 50 mm | <input type="checkbox"/> | |
| 60 mm | <input type="checkbox"/> | |

Without glazing ☐

glazed ☐ panel: _____

Position of installation:

Framed by panels ☐

- | | |
|---------------------------|----------------------|
| Top | frame profile: _____ |
| Bottom | frame profile: _____ |
| Left side (outside view) | frame profile: _____ |
| Right side (outside view) | frame profile: _____ |

Installation in Rodeca frame profiles:

Height over all: _____ mm

Manual operation:

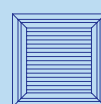
Rotary handle ☐ Hand lever ☐

Electrical operation: ☐ 230 V ☐ 24 V

Chain drive ☐ stroke: _____ mm

Spindle drive ☐ stroke: _____ mm

Miscellaneous: _____

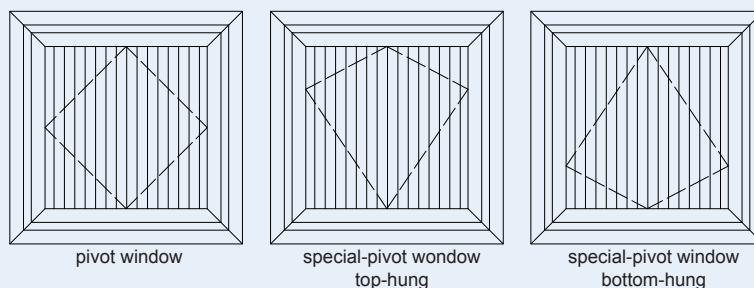


8.6.0.0

Windows

Series 86 | thermally-broken window system

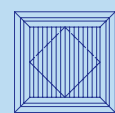
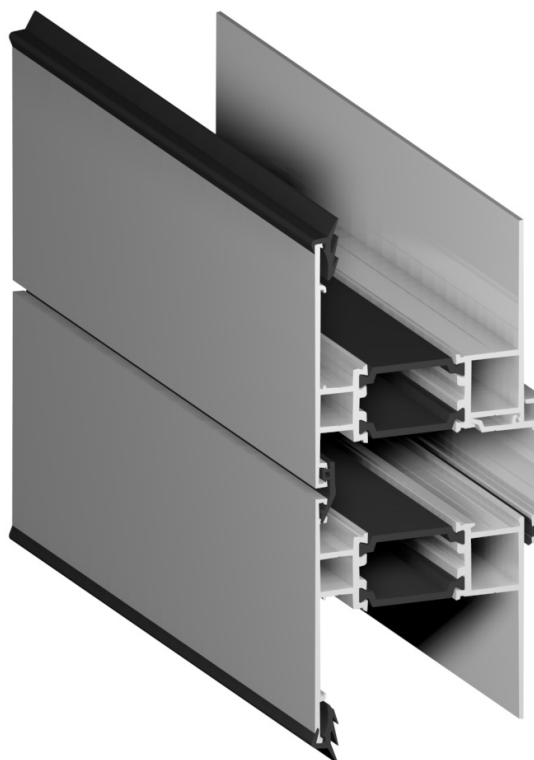
Stand: 10/19



Series 86

Thermally-broken aluminium window system
for polycarbonate glazing with a thickness of 40mm / 50mm / 60mm

Pivot window
Special-pivot window top-hung
Special-pivot window bottom-hung

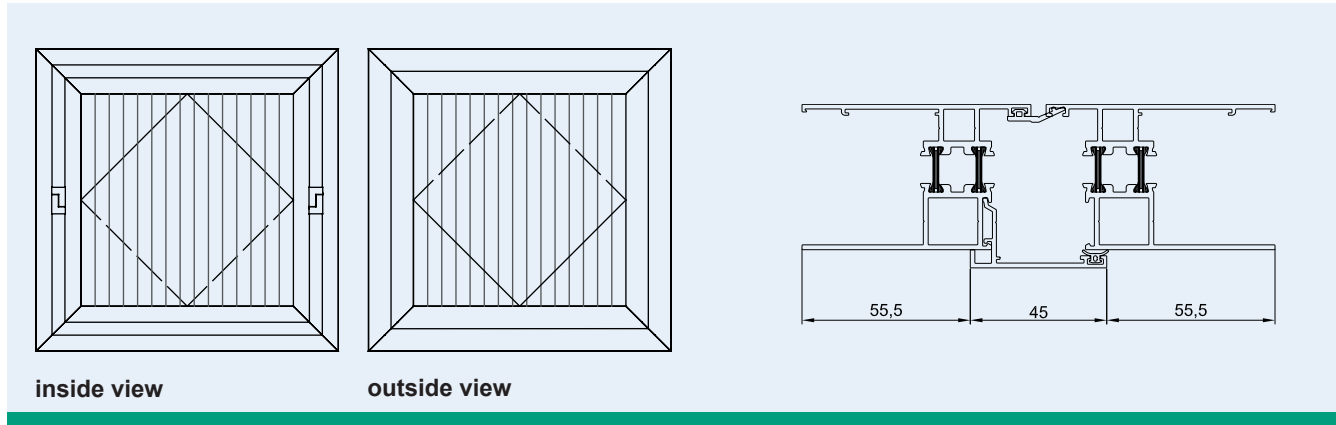


8.6.1.0

Windows

Series 86 | thermally-broken window system

Stand: 10/19



Horizontal pivot window

Pivot window, inward opening at the top, consisting of thermal broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing: 40/50/60 mm polycarbonate panels
- Minimum width: 700 mm
- Minimum height: 700 mm
- Maximum width: 1560 mm
- Maximum height: 1500 mm
- System widths: 1060 / 1560 mm
- Standard dimensions: W*H 1060 mm * 1060 mm
W*H 1060 mm * 1500 mm

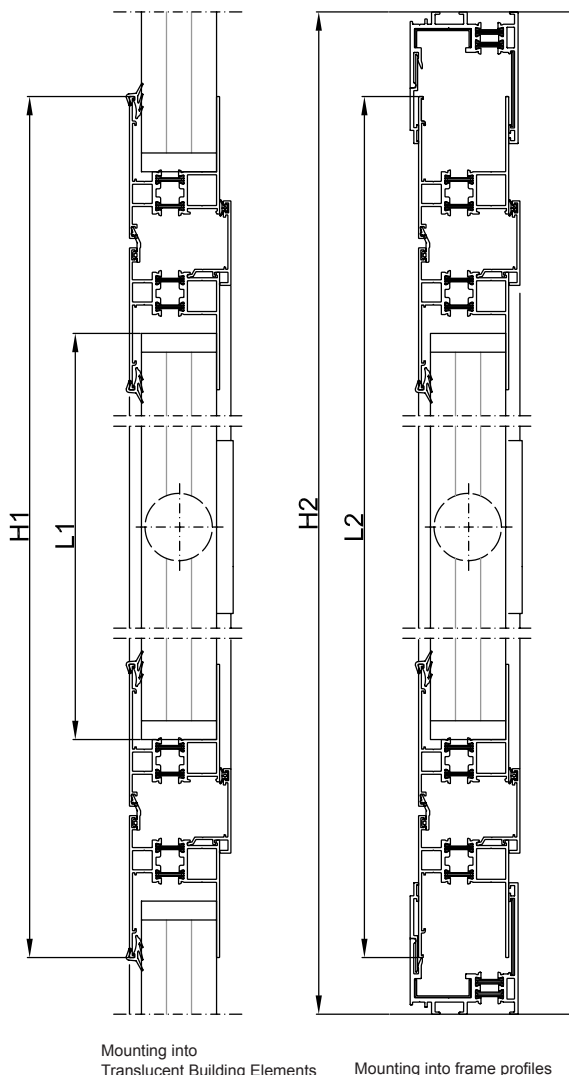
The system width can be used, if a window shall replace 2 or 3 panels in a facade.

Oivot windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.

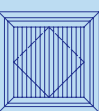
Dimension 'L1': height of polycarbonate glazing
Outer dimension '**H1**' - 215 mm = height of glazing '**L1**'

Dimension 'L2' for mounting into Rodeca frame profiles:
'H2' = height incl. frame profile
'L2' = height of window
Dimension for mounting into Rodeca frame profiles '**H2**' - x = L2

Frame profiles	top profile 414012 / 454012 415012 / 455012 / 456012	top profile 414002 / 454002 415002 / 455002 / 456002
base profile 414011 / 454011 415011 / 455011 456011	80 mm	100 mm
base profile 414001 / 454001 415001 / 455001 / 456001	110 mm	130 mm



In case of using base profile 414001 / 454001 the window must be elevated and fixed inside of profile.

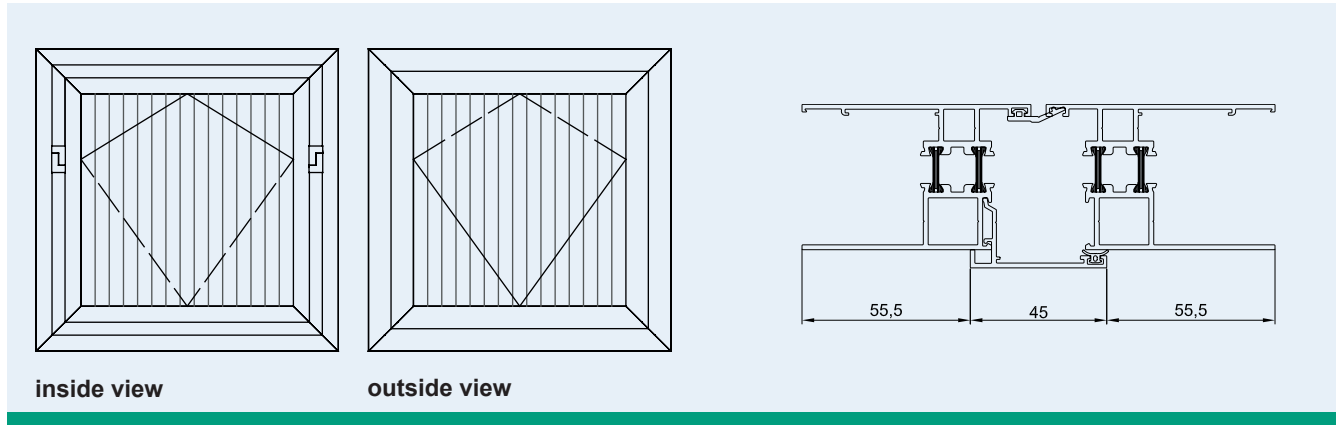


8.6.1.1

Windows

Series 86 | thermally-broken window system

Stand: 10/19



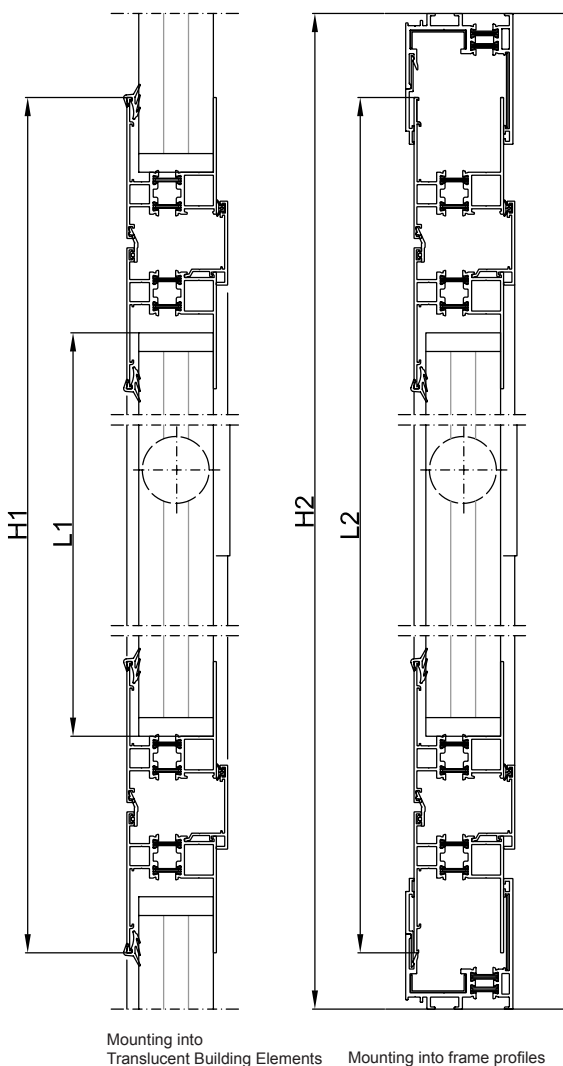
Special-pivot window top-hung

Special-pivot window top-hung (eccentric displaced pivot bearing) 2/3 of the lower area open outwards, consisting of non-thermal broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing: 40/50/60 mm polycarbonate panels
- Minimum width: 700 mm
- Minimum height: 700 mm
- Maximum width: 1560 mm
- Maximum height: 1500 mm
- System widths: 1060 mm / 1560 mm

The system widths can be used, if a window shall replace 2 or 3 panels in a facade. The installation instructions must be observed.

Special-pivot windows are to be fixed to substructure torsion resistant.

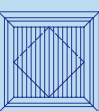


Dimension 'L1': height of polycarbonate glazing
Outer dimension '**H1**' - 215 mm = height of glazing '**L1**'

Dimension 'L2' for mounting into Rodeca frame profiles:
'H2' = height incl. frame profile
'L2' = height of window
Dimension for mounting into Rodeca frame profiles '**H2**' - x = L2

Frame profiles	top profile 414012 / 454012 415012 / 455012 / 456012	top profile 414002 / 454002 415002 / 455002 / 456002
base profile 414011 / 454011 415011 / 455011 456011	80 mm	100 mm
base profile 414001 / 454001 415001 / 455001 / 456001	110 mm	130 mm

In case of using base profile 414001 / 454001 the window must be elevated and fixed inside of profile.

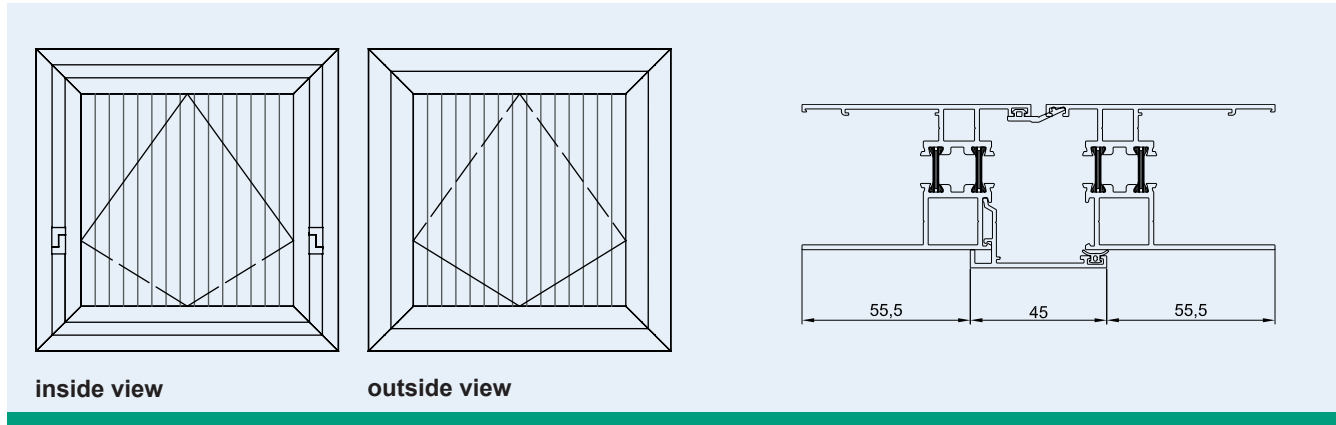


8.6.1.2

Windows

Series 86 | thermally-broken window system

Stand: 10/19



Special-pivot window bottom-hung

Special-pivot window bottom-hung (eccentric displaced pivot bearing) 2/3 of the upper area open inwards, consisting of thermal broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles.

- Glazing: 40/50/60 mm polycarbonate panels
- Minimum width: 700 mm
- Minimum height: 700 mm
- Maximum width: 1560 mm
- Maximum height: 1500 mm
- System width: 1060 mm / 1560 mm

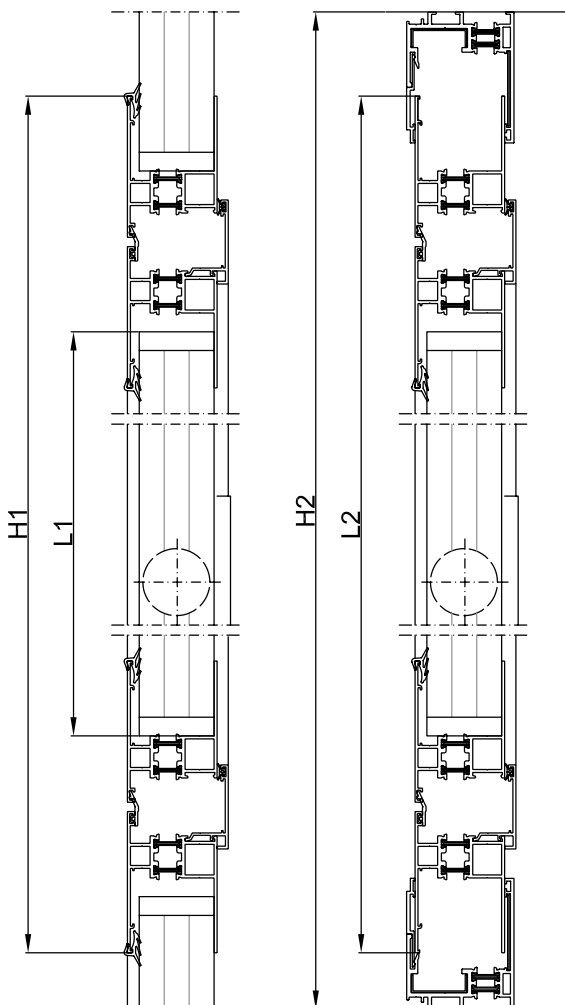
The system width can be used, if a window shall replace 2 or 3 panels in a facade.

Special-pivot windows are to be fixed to substructure torsion resistant. The installation instructions must be observed.

Dimension 'L1': height of polycarbonate glazing
Outer dimension 'H1' - 215 mm = height of glazing 'L1'

Dimension 'L2' for mounting into Rodeca frame profiles:
'H2' = height incl. frame profile
'L2' = height of window
Dimension for mounting into Rodeca frame profiles 'H2' - x = L2

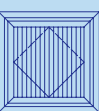
Frame profiles	top profile 414012 / 454012 415012 / 455012 / 456012	top profile 414002 / 454002 415002 / 455002 / 456002
base profile 414011 / 454011 415011 / 455011 456011	80 mm	100 mm
base profile 414001 / 454001 415001 / 455001 / 456001	110 mm	130 mm



Mounting into
Translucent Building Elements

Mounting into frame profiles

In case of using base profile 414001 / 454001 the window must be elevated and fixed inside of profile.

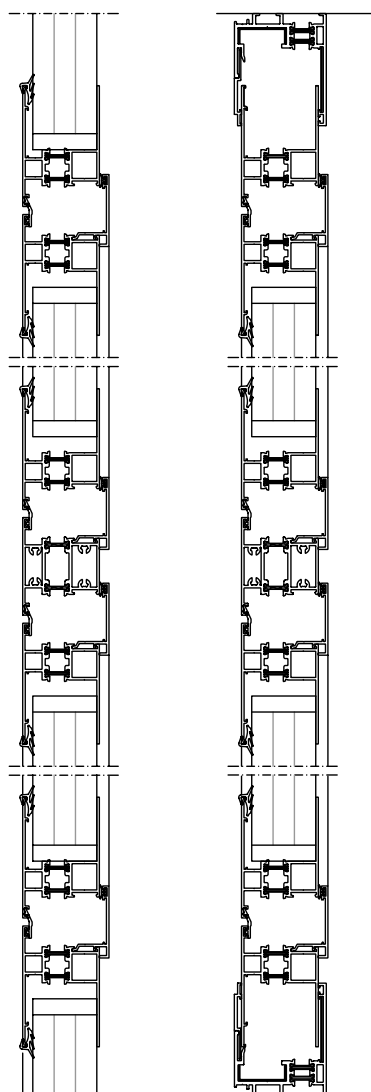
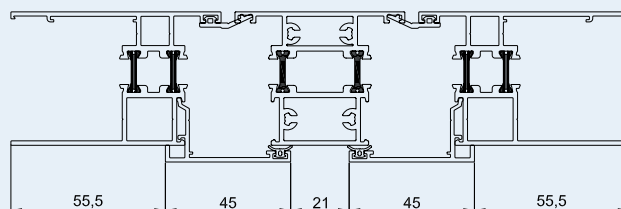
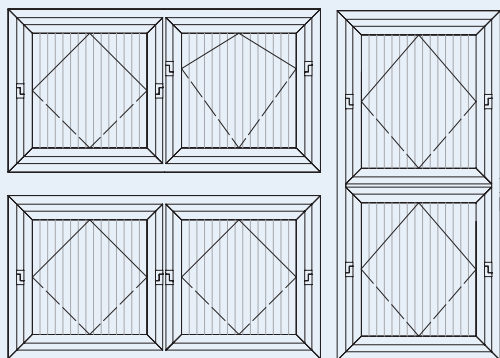


8.6.1.3

Windows

Series 86 | thermally-broken window system

Stand: 10/19



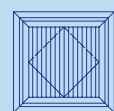
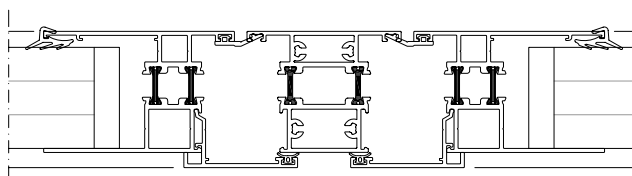
Mounting into
Translucent Building Elements Mounting into frame profiles

Combining element

Combining element, consisting of thermal broken aluminium profiles, with a surrounding frame for Translucent Building Elements, or for mounting into Rodeca frame profiles. Combination of all opening versions is possible.

- Glazing: 40/50/60 mm polycarbonate panels
- Minimum width of single element: 700 mm
- Minimum height of single element: 700 mm
- Maximum width of single element: 1500 mm
- Maximum height of single element: 1500 mm
- Maximum height of combining element: 3000 mm
- Maximum width of combining element: 3000 mm
- Other dimensions on request

Combining elements are to be fixed to substructure torsion resistant. The installation instructions must be observed.



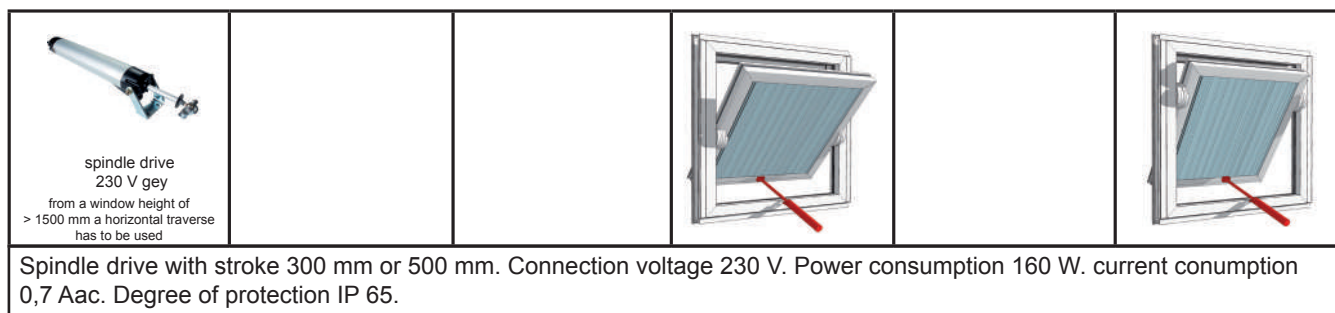
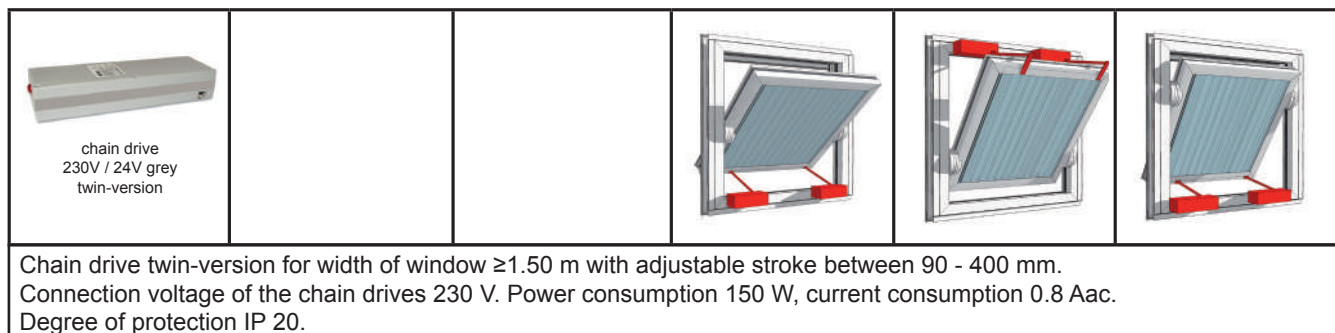
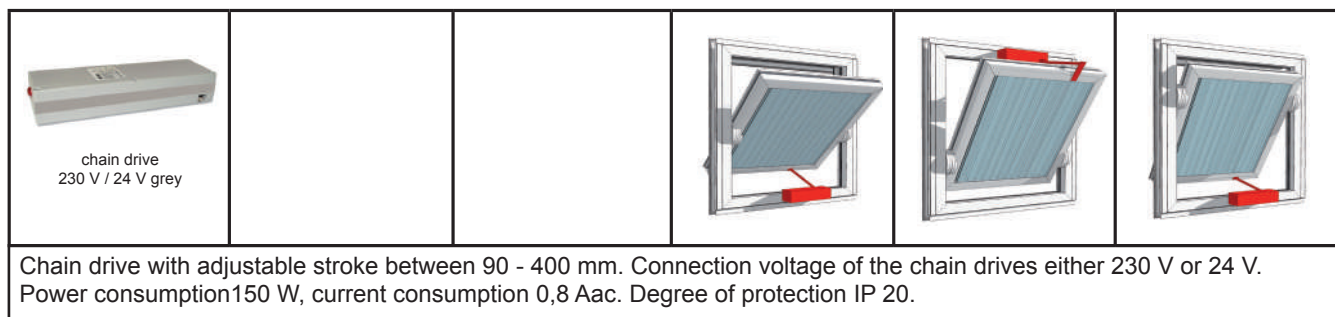
8.6.2.0

Windows

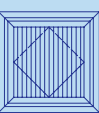
Series 86 | thermally-broken window system

Stand: 10/19

Operations electrical



The electrical operations shown above, are standard items from stock and must be installed and connected on site by appropriate specialist companies.



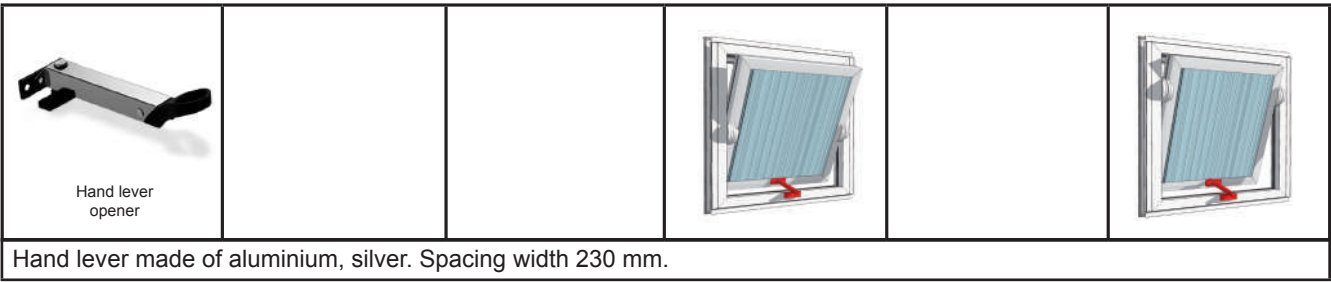
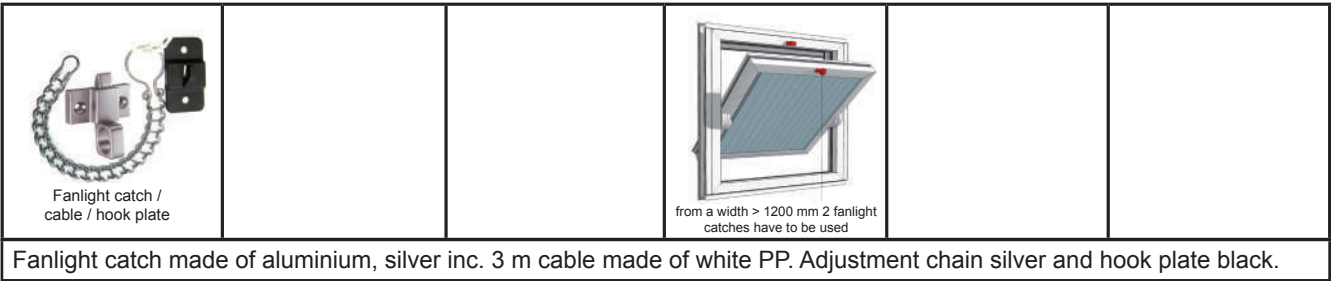
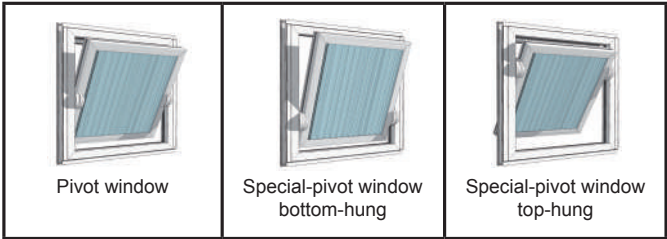
8.6.2.1

Windows

Series 86 I thermally-broken window system

Stand: 10/19

Operations manual



More operations possible on request.

8.6.2.2

Windows

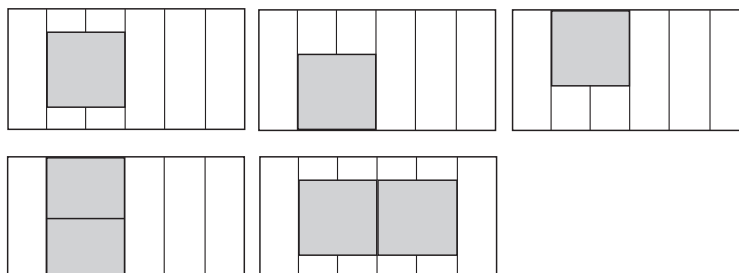
Series 86 | thermally-broken window system

Stand: 10/19

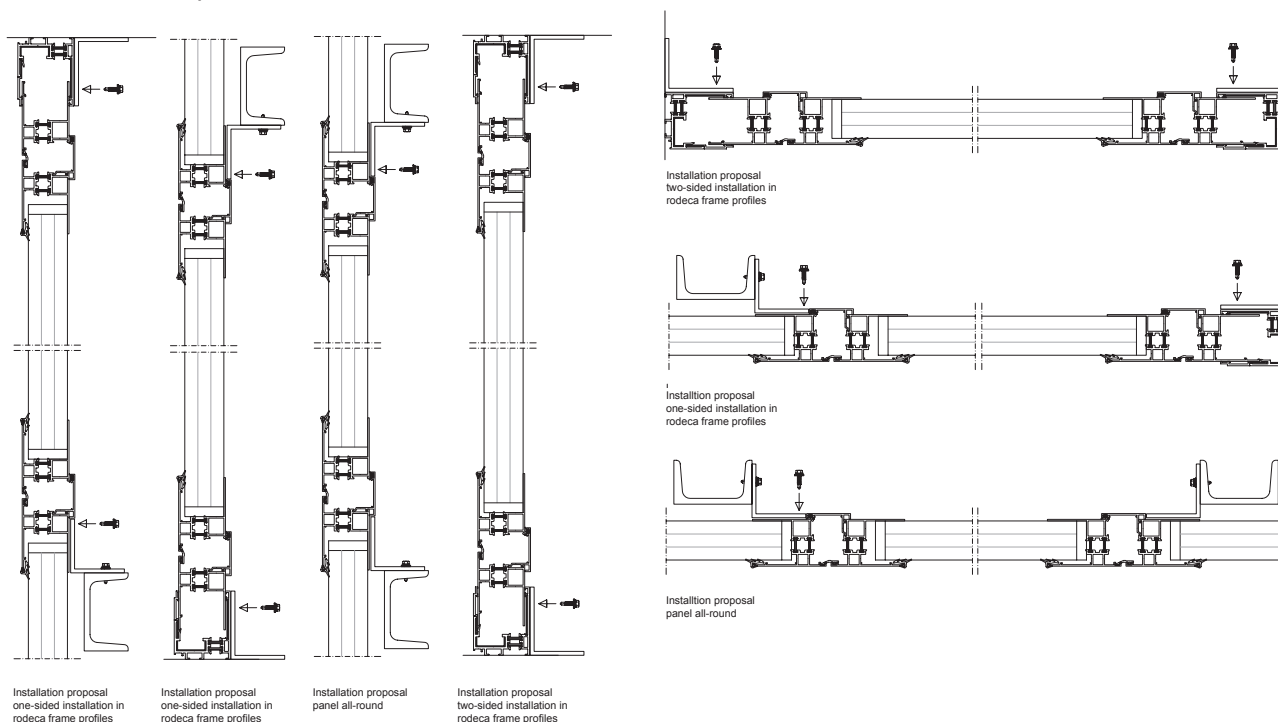
Installation instructions / options

Installation options

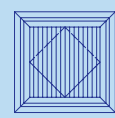
Windows of series 86 can be connected either peripherally to panel glazing or to rodeca frame profiles on several sides. Horizontally or vertically divided combining elements are possible. When placing an order, indicate the appropriate installation situation.



Installation examples



Windows are to be fixed torsion-resistant to an on-site substructure. The self-weight of window may not be transferred to the frame profile. The mounting level of window is the window frame. The position, quantity and dimensioning of the substructure must be adapted to the size ratio of the window sash, as well as the project-related load assumptions. An all-round fixing is recommended. Translucent Building Elements may not be used as stiffening elements. Dimensions of used fasteners have to be calculated according to the substrate and load assumptions. Static has to be verified on site according to the project-related loads. Depending on used base profile, the window must be elevated inside of profile. Depending on the used frame profiles, the front plate must be set before or inserted from the side and secured to the upper frame profile by a screw connection. Furthermore, when mounting in Rodeca frame profiles, the inner and outer gaskets of the frame profiles must be removed. The mounting level of the window is to be checked on site. It is mandatory to observe the installation instructions and the care and maintenance instructions..



Order form S86

Windows

Series 86 | thermally-broken window system

Stand: 10/19

Customer: _____

Order no.: _____ Seller: _____

Window type:

Pivot ☐
 Special-pivot ☐ top-hung ☐ bottom-hung ☐
 Combining-element ☐
 to specify under miscellaneous

Quantity: _____

Finish:

mill finish ☐
 E6/EV1 ☐
 RAL ☐

RAL No.: _____

Dimension:

Width x height: _____ mm * _____ mm

For translucent building elements:

Glazing of window sash:

40 mm ☐
 50 mm ☐
 60 mm ☐

40 mm ☐
 50 mm ☐
 60 mm ☐

without glazing ☐

glazed ☐ panel _____

Position of installation:

Framed by panels ☐

Top
 Bottom
 Left side (outside view)
 Right side (outside view)

frame profile: _____
 frame profile: _____
 frame profile: _____
 frame profile: _____

Installation in Rodeca frame profiles:

Height over all: _____ mm

Manual operation:

Fanlight catch ☐ hand lever opener ☐

Electrical operation: ☐ 230 V ☐ 24 V

Chain drive ☐ stroke: _____ mm

Spindle drive ☐ stroke: _____ mm

Miscellaneous: _____

